



**MIAMI-DADE COUNTY**  
**DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)**  
**BOARD AND CODE ADMINISTRATION DIVISION**  
**NOTICE OF ACCEPTANCE (NOA)**

**MIAMI-DADE COUNTY**  
**PRODUCT CONTROL SECTION**  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/pera/](http://www.miamidade.gov/pera/)

**Master Security Doors Inc.,**  
**2179 N. Powerline Road, Suite #2**  
**Pompano Beach, FL 33069**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Series "EX3" Single Inswing Steel Door -L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **12-059 (old #11-036)**, titled "EX3 USA Inswing Door Large Missile Impact Resistant", sheets 1 through 11 of 11, dated 03/12/12, prepared by Tilteco Inc., signed and sealed by Walter A. Tillit Jr., P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**Limitation:**

1. Refer to sheet 3 of the Dwg's for Design Pressure Vs anchor type and anchor spacing "S"
2. Min (5) retention clip per side jamb required (Max 28.74" OC), See detail X/11 in sheets 3 and 11.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA # 11-0228.03** and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

6/15/12  
**MIAMI-DADE COUNTY**  
**APPROVED**

**NOA No 12-0320.22**  
**Expiration Date: February 23, 2016**  
**Approval Date: June 14, 2012**  
**Page 1**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections (transferred from file # **11-0228.03**)
2. Drawing No. **12-059 (old #11-036)**, titled "EX3 USA Inswing Door Large Missile Impact Resistant", sheets 1 through 11 of 11, dated 03/12/12, prepared by Tilteco Inc., signed and sealed by Walter A. Tillit Jr., P.E.

Note: This revision consists of FBC 2010 notes only.

**B. TESTS (submitted under files # **11-0420.01/ 05-1121.04**)**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawings and installation diagram of inswing steel door, prepared by American Test Lab of South Florida, Test Report No. **ATL# 0708.01-05**, dated 11/09/05, signed and sealed by William R. Mehner, P.E.

**C. CALCULATIONS**

1. Anchor Calculation and Structural analysis complying w/ FBC 2004, prepared by Tilteco, Inc., dated 09/09/05, signed and sealed by Walter A. Tillit Jr., P.E. (submitted under # **05-1121.04**)

**D. QUALITY ASSURANCE**

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

**E. MATERIAL CERTIFICATIONS**

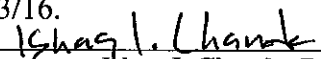
1. Tensile test report # 5GM-704 dated July 28, 2005 per ASTM E-8, issued by Metallurgical Inc, signed by Frank Grate(submitted under # **05-1121.04**)

**F. STATEMENTS**

1. Statement letter of compliance to FBC 2010, dated 03/12/12 issued by Tilteco Inc., signed and sealed by Walter A. Tillit Jr., P.E.
2. Statement letter of compliance to FBC 2007, dated 04/14/11, issued by Tilteco Inc., signed and sealed by Walter A. Tillit Jr., P.E. (submitted under # **11-0228.03**)
3. Statement letter of compliance to FBC 2004 & "No financial interest", dated 04/14/11 issued by Tilteco Inc., both signed and sealed by Walter A. Tillit Jr., P.E.( submitted under # **05-1121.04**)
4. Lab compliance as part of the above referenced test report.

**G. OTHER**

1. This NOA revises NOA # **11-0228.03**, expiring on 02/23/16.

  
Ishaq I. Chanda, P.E.  
Product Control Examiner  
NOA No 12-0320.22  
Expiration Date: February 23, 2016  
Approval Date: June 14, 2012

# GENERAL NOTES

1. EX-3 USA, Inswing single door, large missile impact resistant shown on this Product Approval Document (P.A.D.) has been verified for compliance in accordance with the 2007 & 2010 editions of the Florida Building Code. Door may be mentioned codes, using ASCE 7-05 standar for installations under 2007 FBC & ASCE 7-10 standard for installations under 2010 FBC and shall not exceed the maximum (A.S.D.) design pressure rating indicated on note 2 on this sheet & sheet 3. **In order to verify the above condition, ultimate design wind loads determined per ASCE 7-10 shall be first reduced to A.S.D design wind loads by multiplying them by 0.6 in order to compare these w/ max. (A.S.D) design pressure rating indicated on note 2 on this sheet & sheet 3.**

In order to verify that anchors on this P.A.D., as tested, were not overstressed, a 33% increase in allowable stresses for wind loads was not used in their analysis. A duration factor  $C_D = 1.60$  was used to verify fasteners in wood. This door's adequacy for impact and cyclic resistance has been verified in accordance with section 1626 of the above mentioned code, as per TAS 201, 202 and 203 protocols, per ATL Report #0708.01-05, and as per submitted calculations performed as per section 1612 of the Florida Building Code.

2. **Max A.S.D. Design Pressure Rating: + 70, -200 psf**  
This A.S.D. design pressure rating is only valid if door is assembled with required hardware indicated on sheet 2 of this drawing.

3. **This Door is approved for Air and Water Infiltration.**  
This approval is only valid if door is sealed with required gasketing and weather stripping as indicated on Bill of Materials on sheet 3, and sealant specified on General Note 10 below.

4. **This Door will not require a Hurricane Protective Device.**

5. Wood bucks by others, and must be properly anchored to transfer loads to the existing structure. Wood bucks must be Southern Pine #2, with specific Gravity G equal or greater than 0.55, and shall comply w/ sections 2411.3.3.3. & 2326 of the 2007 & 2010 editions of the Florida Building Code & must sustain loads imposed by door and transfer them to the Building Structure.

6. Anchors for fastening door subframe to existing structure must be as indicated on sheet 3.

7. All welding to conform to the American welding Society AWS D1.3 and AWS D9.1 Regulations per Florida Building Code, section 2214.3. Use certified welders.

8. All screws used for assembly connections (metal to metal) to be stainless steel 304 or 316 series or corrosion resistant coated carbon steel as per DIN 50018 with 50 ksi minimum yield strength and 90 ksi tensile strength and shall comply with Florida Building Code, section 2411.3.3.4

9. Remaining components for this door system shall be as indicated on Bill of Materials on sheet 2 of this drawing.

10. Sealing of door components shall be as follows:

## Sealant:

**Frame:** The interior and exterior perimeter joints and all frame connections shall be sealed with silicone sealant. The two sheet metal 45° angle shaped sections at the corner key shall be sealed to each other and to the sheet metal fabricated corner section with silicone sealant. The two steel sections at the sill shall be sealed with silicone sealant. Hinges shall be also sealed to hinge jamb with silicone sealant.

**Sub-frame:** The interior and exterior perimeter joints and all sub-frame connections shall be sealed with silicone sealant. Sub-frame shall be also sealed to the frame with silicone sealant around the exterior perimeter. Sub-frame shall be sealed to the wood buck using silicone sealant.

**Door:** The interior and exterior perimeter joints and all door connections to the main casing at the top rail, bottom rail and stiles shall be sealed with silicone sealant. Hinges shall also be sealed to hinge stile with silicone sealant. The plywood panel on exterior side of door shall be sealed around perimeter of the top rail, bottom rail and stiles with silicone sealant. The interior and exterior perimeter joints and all frame connections were sealed with silicone sealant. The sill flashing was sealed to the door panel with silicone sealant.

11. **Frame and Sub-frame Material:** Hot rolled steel DD12 Reference EN 10111 with Tensile Strength = 55,900 psi; Yield Strength at 0.2% = 52,400 psi; Ultimate Elongation 24.5%.

12. **Door Material:** Hot rolled zinc plated DX51 + Z100 (275 G/M  $\pm$  0.6 Oz/Ft<sup>2</sup>) Reference EN 10142 + A1-97 with Tensile Strength = 54300 psi, Yield Strength at 49,600 psi; Ultimate Elongation = 23%.

13. **ASTM Designation for Steel:** Equivalent to ASTM A 653 CQ Grade 50 at frame and ASTM A 653 CQ Grade 50 at door.

14. **Galvanizing type:** G60 (initial shop coated), followed by a second coat of asphalt paint in accordance w/ 2007 & 2010 Florida Building Code, section 2220.2

15. **Decorative Wood Clad Panels:** 0.250 (1/4") thick plywood (min. E=1300 ksi.), oak (min. E=1573 ksi.), pine (min. E=1417 ksi.), mahogany (min. E=1204 ksi.), Douglas fir (min. E=1390 ksi.) with 10-12% maximum moisture content, painted with minimum of two (2) coats of water based varnishes, protective impregnators and coatings for outdoor installations.

16. Door's manufacturer label shall be placed on the exposed surface of door's frame or sub-frame. One Label shall be placed for every door. Label shall read as follows:

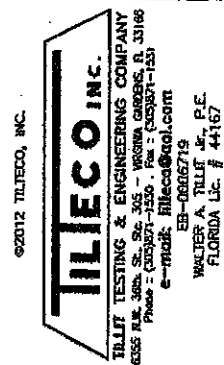
Master Security Doors, Inc.  
Deerfield Beach, Fl  
Miami Dade County Product Control Approved.

17.

- This P.A.D. prepared by this engineer is generic and does not provide information for a specific project; i.e., where the site conditions deviate from the P.A.D.
- Contractor to be responsible for the selection, purchase and installation, including life safety of this product, based on this P.A.D., provide he/she does not deviate from the conditions detailed on this document. Construction safety at site is the contractor's responsibility.
- This P.A.D. will be considered invalid if altered by any means.
- Original P.A.D. shall bear the date and original seal and signature of the professional engineer of record that prepared it.

18. Materials, included but not limited to steel / metal screws, that come in contact with other dissimilar materials shall meet the requirements of 2007 & 2010 Florida Building Code, section 2003.8.4

19. Provide 1/4" max. bearing shim space.



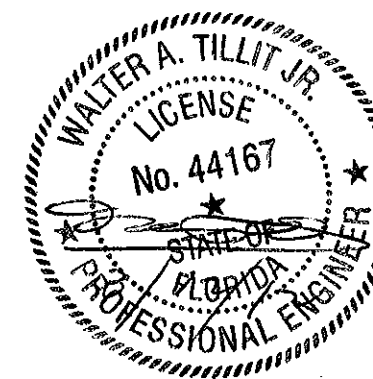
MASTER SECURITY DOORS, INC.

2179 N. POWER LINE ROAD  
SUITE 2  
POMPANO BEACH, FL 33069  
TELEPHONE: 954-971-4747  
FAX: 954-971-4925

MODEL: EX3 USA  
INSWING DOOR  
LARGE MISSILE  
IMPACT RESISTANT  
DRAWING: ELEVATION  
SCALE: NONE  
DRAWN BY: KP, REAG.  
DATE DWN: OLD 11-036 02/29/12

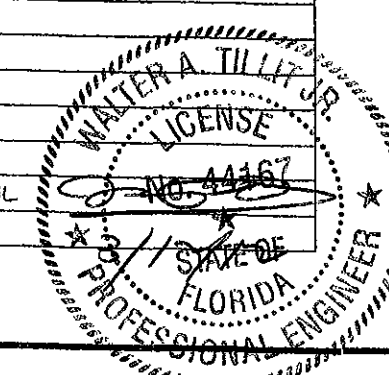
PRODUCT REVIEWED  
as complying with the Florida  
Building Code  
Acceptance No. 12-0320-22  
Expiration Date APR 23, 2016  
By: [Signature]  
Miami Dade Product Control

12-059  
DRAWING N°  
SHEET 1 OF 11



# BILL OF MATERIALS

ITEM #	DESCRIPTION	MATERIAL	QTY	COMMENTS
1	HANDLE SET W/DEAD BOLT	MISC.	1	NOT APPLICABLE
2	EXTERIOR PANEL (SEE NOTE 15)	0.250 THK. WOOD G >= 0.55	1	ATTACHED TO ITEM 11 WITH LIQUID NAIL GLUE
3	INTERIOR PANEL (SEE NOTE 15)	0.250 THK. WOOD G >= 0.55	1	ATTACHED TO ITEM 11 WITH LIQUID NAIL GLUE
4	FRAME JAMBS, HEAD	HR STL W/ A52 PVC FILM	3	NOT APPLICABLE
5	FRAME CORNER KEY	GALV. STEEL	2	REFER TO SHEET 8
6	HINGE ASSEMBLY	STEEL	3	REFER TO SHEET 10
7	ROCKWOOL INSULATION	FIBERGLASS	A/R	PANEL CAVITY
8	REINF (MULTI-POINT LOCK HOUSING)	STEEL	1	AT LOCK STILE
9	9/16" X 1/8" THK OPEN CELL FOAM	EPS	A/R	W/ADHESIVE BACKING AND GLUED TO COMPRESSION GASKET
10	PANEL REINF (HINGE STILE)	STEEL	1	AT HINGE STILE
11	PANEL TOP, BOTTOM & STILE RAILS	HR STL W/ A52 PVC FILM	4	NOT APPLICABLE
12	#5 X 1/2" PPHSMS	STEEL	19	PANEL ASS'Y SCREW
13	CISA CYLINDER ASSEMBLY LOCK	STEEL	1	REFER TO SHEET 9
14	BACKING TOBAR	GALV. STEEL	2	NOT APPLICABLE
15	TOP FRAME SILL	HR STL W/ A52 PVC FILM	1	REFER TO SHEET 6
16	REAR PANEL PLATE	HOT ROLLED STEEL	1	0.059" THK, SPOT WELDED TO ITEM 8 IN THE LOCK STILE WITH TWO ROWS OF SPOT WELDS, 4" APART, FIRST ROW AT 5/8" FROM LOCK STILE. EACH ROW WITH (8) WELDS, LOCATED (1) AT 1 1/2" FROM TOP RAIL, BALANCE AT 13 1/8", 17 1/4", 16", 3 3/4", 11", 10 3/4", 16" AND ALSO SPOT WELDED TO ITEM 10 IN THE HINGE STILE WITH ONE ROW OF (6) SPOT WELDS AT 2 1/2" FROM HINGE STILE, AND AT 2 1/2" FROM TOP RAIL, WITH BALANCE AT 14 1/2", 17", 17 7/8", 18" AND 19 1/2".
17	FRONT PANEL FORMED PLATE	HOT ROLLED STEEL	1	0.059" THK, WELDED TO THE STEEL FORMED SECTION AROUND THE ENTIRE PERIMETER ON INTERIOR AND EXTERIOR SIDE, (20) WELDS AT EACH STILE, LOCATED AT (1) AT 1/1/8" FROM TOP RAIL, THEN (19) WELDS AT 4 3/4" O-C. (8) WELDS AT TOP AND BOTTOM RAIL, EACH LOCATED (1) AT 1" FROM LOCK STILE, THEN (7) AT 5" O-C.
18	SUBFRAME HEAD	HOT ROLLED STEEL	1	REFER TO DETAIL 18, SHEET 7
19	SUBFRAME JAMBS	HOT ROLLED STEEL	2	REFER TO DETAIL 19, SHEET 7
20	LOWER FRAME SILL	HR STL W/ A52 PVC FILM	1	REFER TO DETAIL 20, SHEET 7
21	SUBFRAME CORNER KEY	GALV. STEEL	2	REFER TO DETAIL 21, SHEET 7 AND DETAIL 5, SHEET 8
22	FRAME GASKET	VINYL	A/R	REFER TO DETAIL 22, SHEET 11
23	COMPRESSION GASKET	VINYL	A/R	REFER TO DETAIL 23, SHEET 11
24	BLOT W/THREADED SLEEVE	STEEL	5	REF DET 24, SHEET 6 AND REF DET 28, SHEET 7. LOCATED AT 1 3/8" WIDE X 1 1/8" HIGH CUT OUTS COVERED WITH VINYL COVER (5) AT HINGE JAMB
25	RETENTION CLIP HOUSING	GALV STEEL	10	5 PER JAMB. SEE LOCATIONS ON SHEET 3. REF. DET 25, SHEET 11
26	RETENTION CLIP	GALV. STEEL	10	5 PER JAMB. SEE LOCATIONS ON SHEET 3. REF. DET 26, SHEET 11
27	M8 X 30MM ALLEN HEAD BOLT	STEEL	5	SEE SHEET 3 FOR LOCATIONS
28	BLOT KEEPER	PLASTIC	5	REF DET 28, SHEET 7. USE 5 AT HINGE JAMB AT ITEM 24.
29	SILL SWEEP	STEEL W/A52 PVC FILM	1	REFER TO DETAIL 29, SHEET 7
30	SILL SWEEP END GASKET	VINYL	2	REFER TO DETAIL 30, SHEET 7
31	SILL SWEEP FASTENER	STEEL	2	REFER TO SHEET 4
32	5/8" X 0.090" THK OPEN CELL FOAM	EPS	1	AT SILL SWEEP, BETWEEN SILL SWEEP AND DOOR PANEL
33	CHANNEL COVER (0.227" X 0.390" X 0.38 THK)	PLASTIC	1	REFER TO DETAIL ON SHEET 04 (AT SILL)



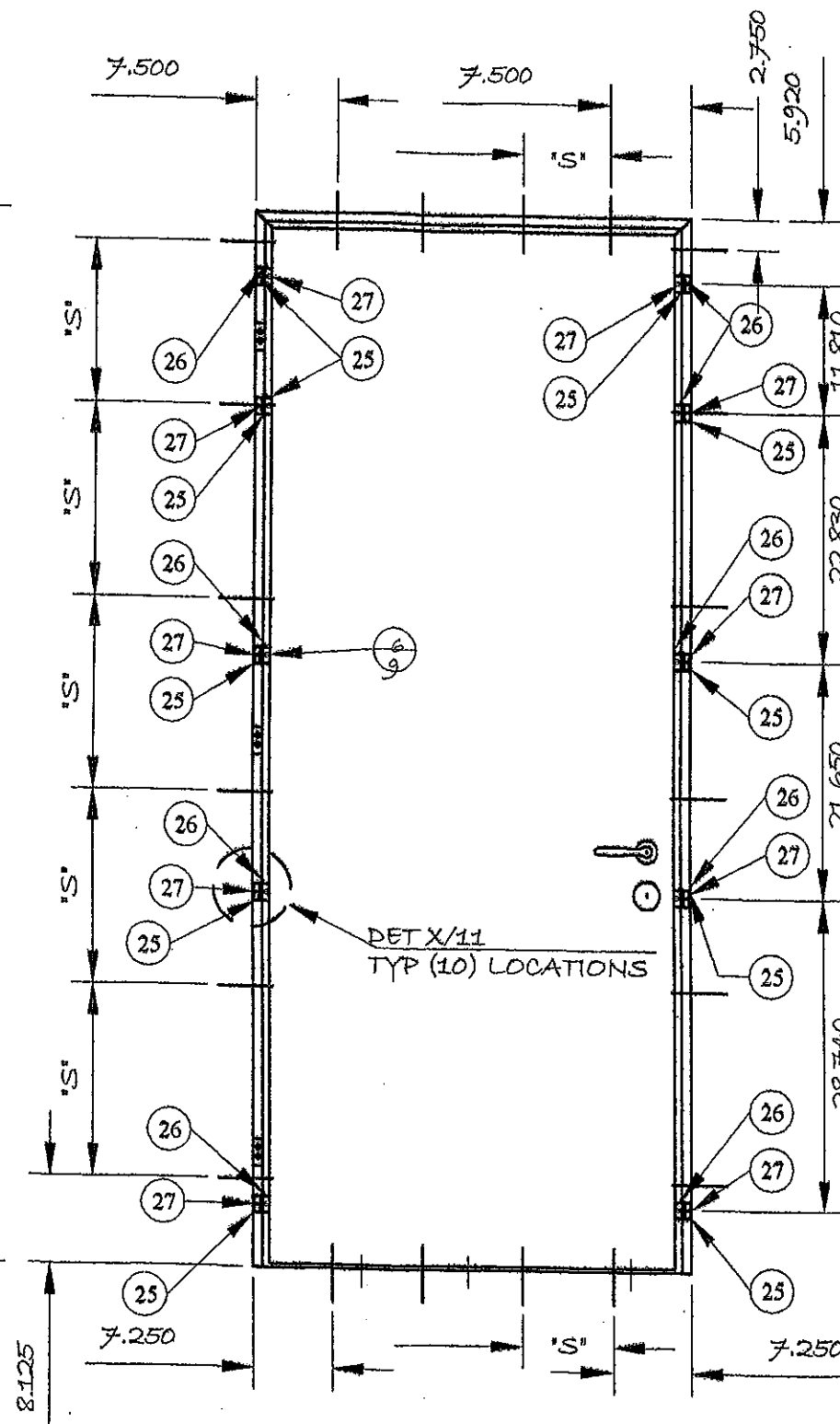
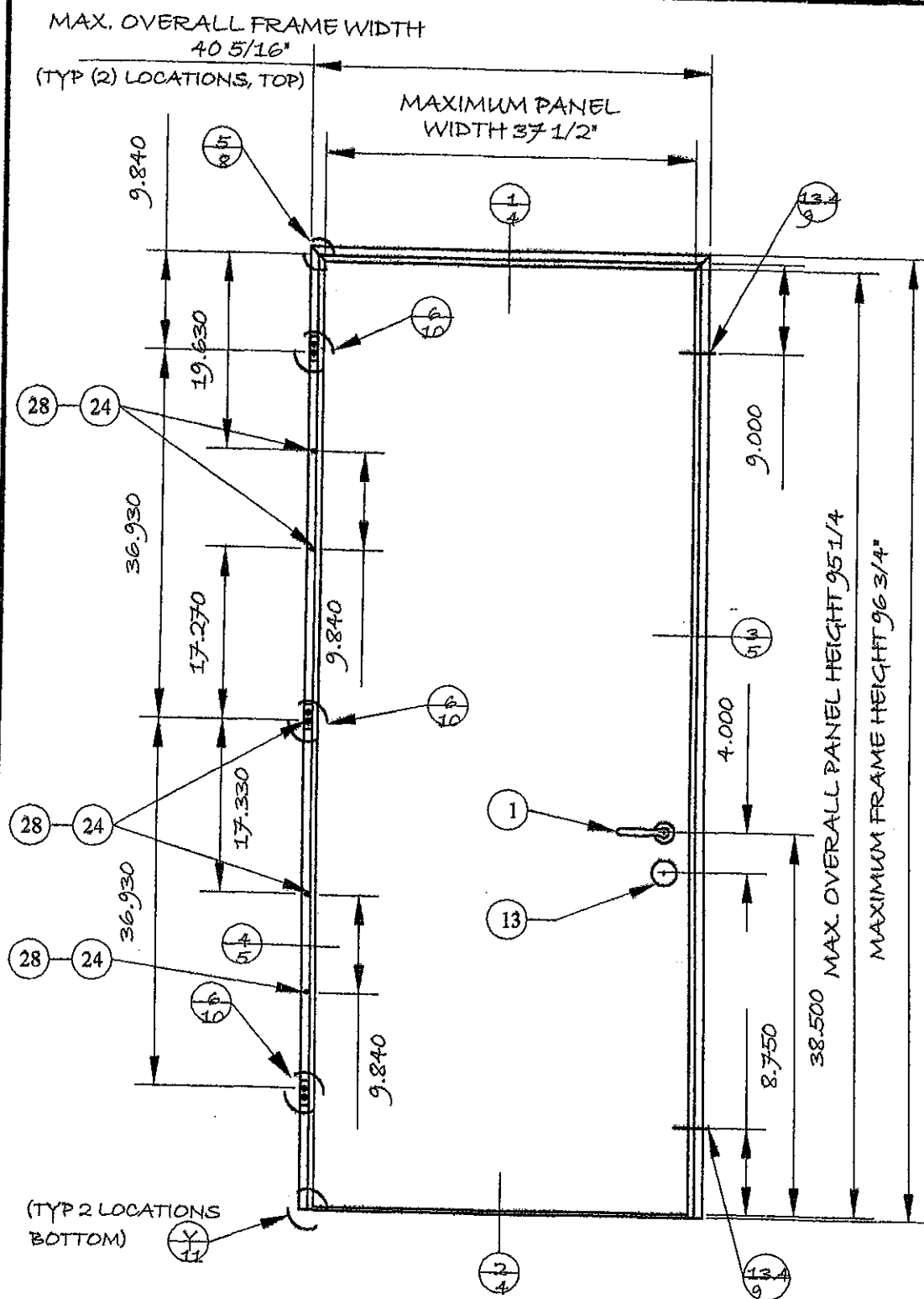
62012 TILTECO, INC.  
**TILTECO INC.**  
 TILIT TESTING & ENGINEERING COMPANY  
 6205 N. W. 13th Ave., Suite 200, Fort Lauderdale, FL 33309  
 Phone: (954) 971-1530 Fax: (954) 971-1531  
 e-mail: tiliteco@aol.com  
 EB-0006719  
 WALTER A. TILLY JR., P.E.  
 FLORIDA Lic. # 44167

**MASTER SECURITY DOORS, INC**  
 2179 N POWER LINE ROAD  
 SUITE 2  
 POMPANO BEACH, FL 33069  
 TELEPHONE: 954-971-4747  
 FAX: 954-971-4925

MODEL: EX3 USA  
 INSWING DOOR  
 LARGE MISSILE  
 IMPACT RESISTANT  
 DRAWING: ELEVATION  
 SCALE: NONE  
 DRAWN BY: KP, RE.A.G.  
 DATE DWN: OLD 11-036 02/29/12

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 12-0320-22  
 Expiration Date 4/23/16  
*[Signature]*  
 Product Marked Product Control

12-059  
 DRAWING N°  
 SHEET 2 OF 11



MAXIMUM ANCHOR  
SPACING 'S' SCHEDULE  
FOR SUBFRAME ANCHORAGE  
TO EXISTING STRUCTURE

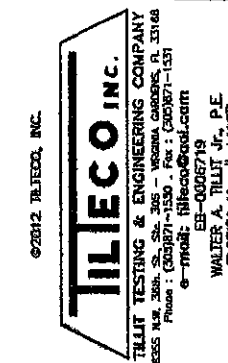
DOOR FRAME	MAX. A.S.D DESIGN PRESSURE RATING	ANCHOR TYPE	
		1	2
JAMBS	UP TO 100 PSF	10' O.C.	17 3/4' O.C.
	>100 TO 200 PSF	5' O.C.	9' O.C.
HEAD SILL	UP TO 100 PSF	12 7/8' O.C.	25' O.C.
	>100 TO 200 PSF	6 3/8' O.C.	8 5/8' O.C.

\* VALID FOR EITHER POURED CONCRETE,  
CONCRETE BLOCK, OR WOOD SUBSTRATES  
(REFER TO ANCHOR LEGEND)

ANCHOR LEGEND:

1. 1/4" TAPCON ANCHORS, BY ELCO  
TEXTRON W/ 1 1/4" MIN. EMBEDMENT  
TO  $F'_c = 3.32$  KSI CONCRETE, OR ASTM  
C-90 CONCRETE BLOCK AND WITH 3" MIN.  
EMBEDMENT TO WOOD SUBSTRATE  
 $W/G \geq 0.55$  MIN EDGE DISTANCE =  
2 1/2" (MASONRY) AND MIN. EDGE  
DISTANCE 1" (WOOD).
2. 3/8" TAPPERS BY POWER FASTNERS, INC;  
W/ 1 1/4" MIN. EMBEDMENT TO  $F'_c = 3.0$  KSI  
CONCRETE OR ASTM C-90 CONCRETE  
BLOCK WALL AND WITH 3" MIN. EMBED.  
TO WOOD SUBSTRATE  $W/G \geq 0.55$  MIN  
EDGE DISTANCE = 4 1/2" (MASONRY),  
MIN. EDGE DISTANCE = 1 1/2" (WOOD).

———— = PERIMETER FASTENER LOCATIONS  
(SEE ANCHOR LEGEND, THIS SHEET)



**MASTER SECURITY DOORS, INC.**  
2179 N POWER LINE ROAD  
SUITE 2  
POMPANO BEACH, FL 33069  
TELEPHONE: 954-971-4747  
FAX: 954-971-4925

MODEL: EX3 USA  
INSWING DOOR  
LARGE MISSILE  
IMPACT RESISTANT

DRAWING: ELEVATION

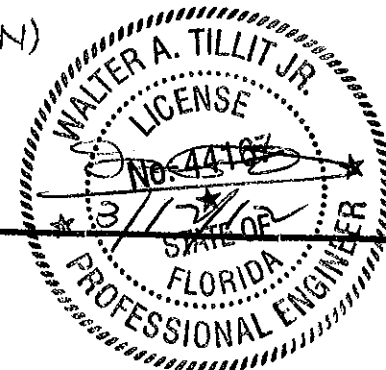
SCALE: NONE

DRAWN BY: KP, RE, A.G.

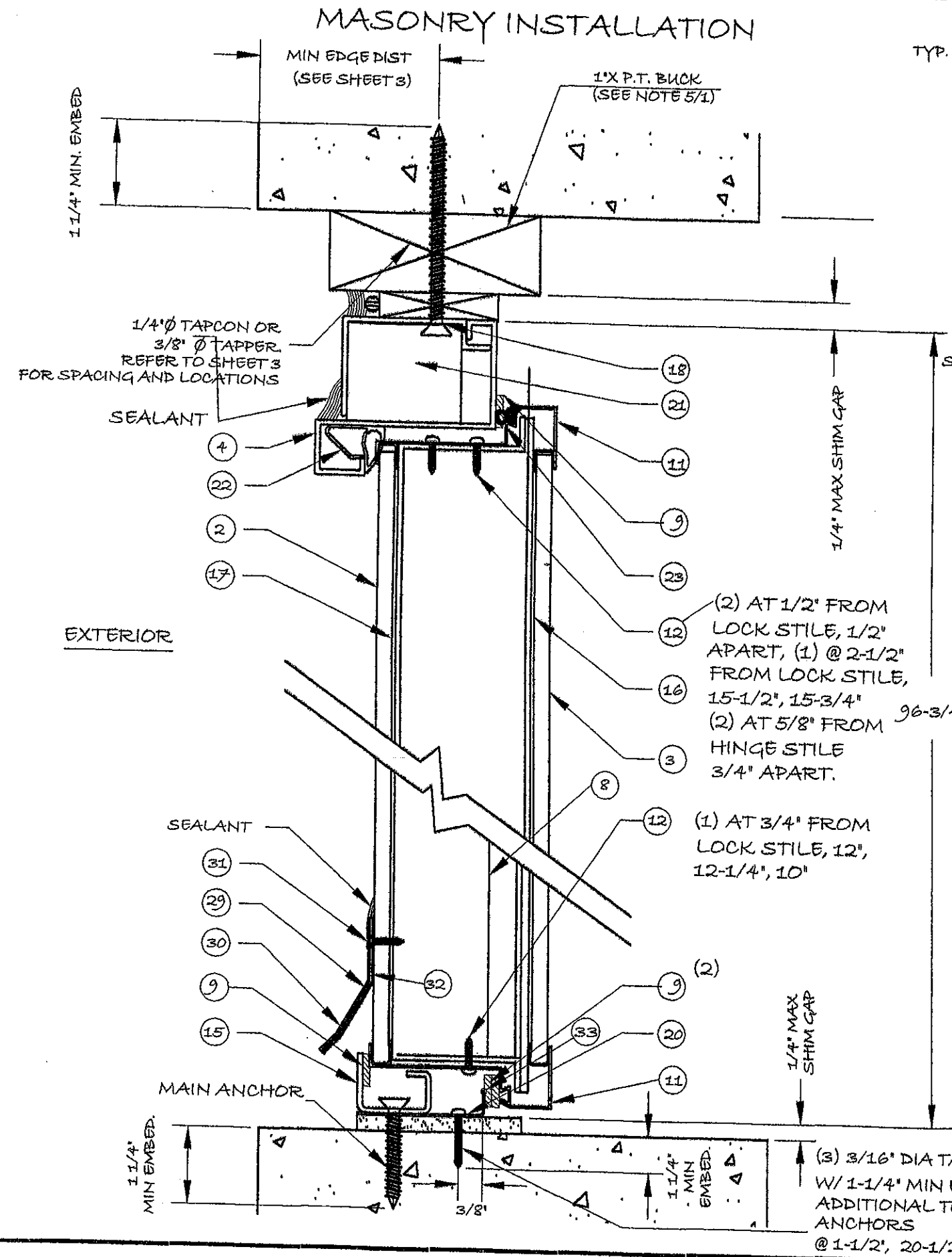
DATE DWN: OLD 11-036 02/29/12

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 12-0320.22  
Expiration Date 9/29/16  
By: [Signature]  
School Dist. Project Control

12-059  
DRAWING N°  
SHEET 3 OF 11



# MASONRY INSTALLATION

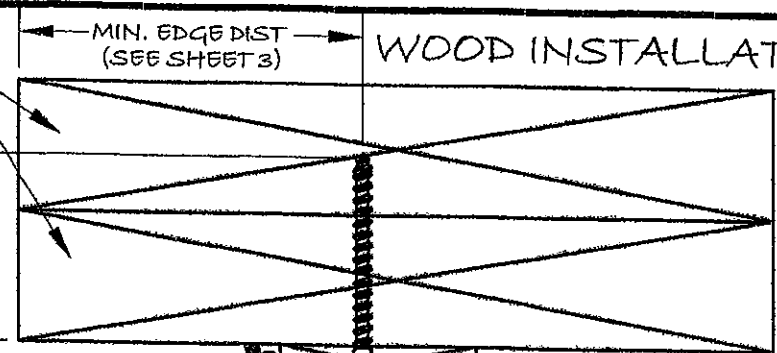


(2) 2' X PT BUCK  
(SEE NOTE 5/1)  
TYP. TOP AND BOTTOM

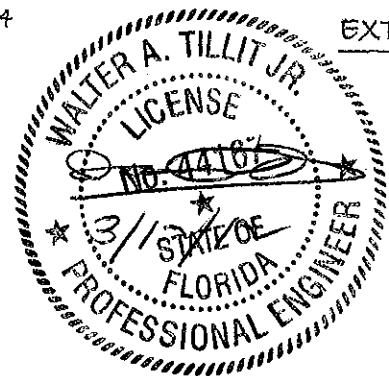
1  
4

3\"/>

# WOOD INSTALLATION

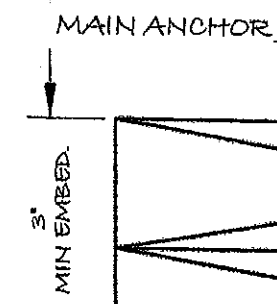


1/4\"/>



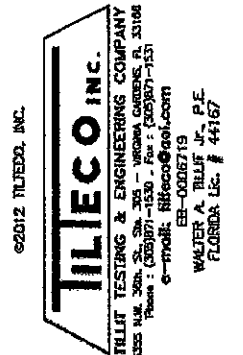
EXTERIOR

2  
4



(3) # 6 SMS WITH  
1-1/4\"/>

1 1/4\"/>



**MASTER SECURITY DOORS, INC.**  
2179 N POWER LINE ROAD  
SUITE 2  
POMPANO BEACH, FL 33069  
TELEPHONE: 954-971-4747  
FAX: 954-971-4925

**MODEL:** EX3 USA  
INSWING DOOR  
LARGE MISSILE  
IMPACT RESISTANT

**DRAWING:** VERT. CROSS SECT

**SCALE:** NONE

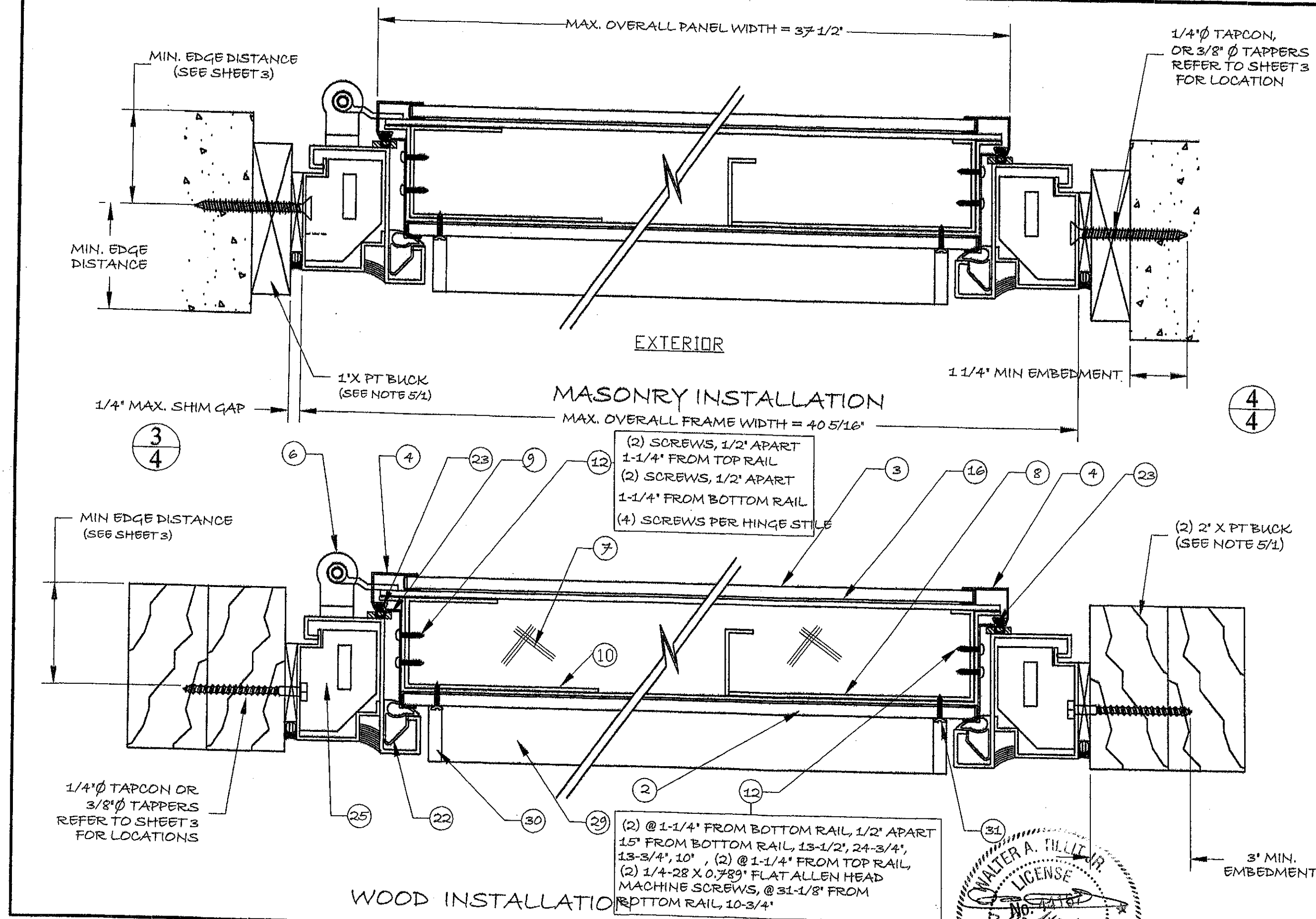
**DRAWN BY:** KP, REAG.

**DATE DWN:** OLD 11-036 02/29/12

**PRODUCT REVISED**  
to comply with the Florida  
Building Code  
Acceptance No. 12-0320, 22  
Expiration Date 4/28/16  
by Ishag J. Lynde  
Product Control

12-059  
DRAWING N°  
SHEET 4 OF 11





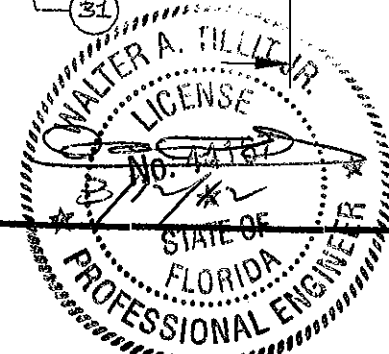
©2012 TILTECO, INC.  
**TILTECO INC.**  
 TILIT TESTING & ENGINEERING COMPANY  
 2500 N. W. 10th Ave., Suite 3100  
 Ft. Lauderdale, FL 33309  
 Phone: (954) 971-1500 Fax: (954) 971-1515  
 e-mail: [tilteco@tilteco.com](mailto:tilteco@tilteco.com)  
 EB-0006719  
 WALTER A. TILIT, Jr., P.E.  
 FLORIDA Lic. # 44167

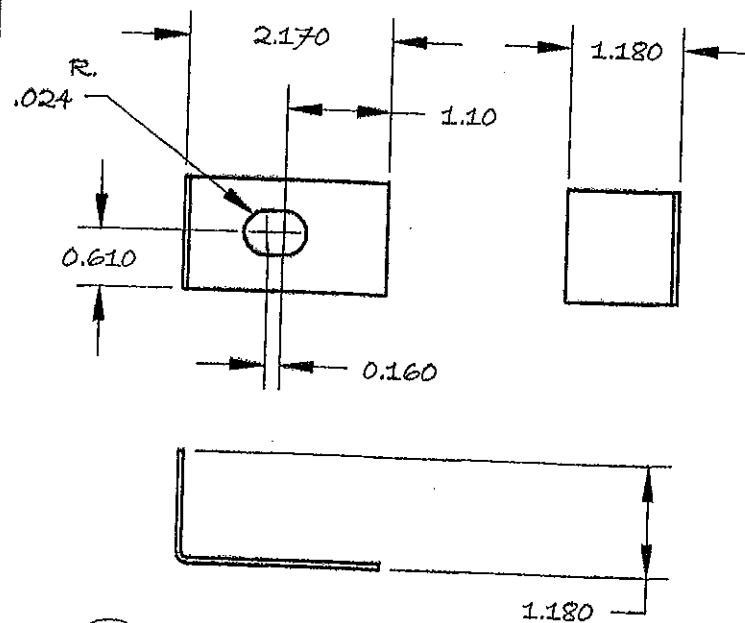
**MASTER SECURITY DOORS, INC.**  
 2179 N POWER LINE ROAD  
 SUITE 2  
 POMPANO BEACH, FL 33069  
 TELEPHONE: 954-971-4747  
 FAX: 954-971-4925

MODEL: EX3 USA  
 INSWING DOOR  
 LARGE MISSILE  
 IMPACT RESISTANT  
 DRAWING: HORIZ. CROSS SECT  
 SCALE: NONE  
 DRAWN BY: KP, REAG.  
 DATE DWN: OLD 11-036 02/29/12

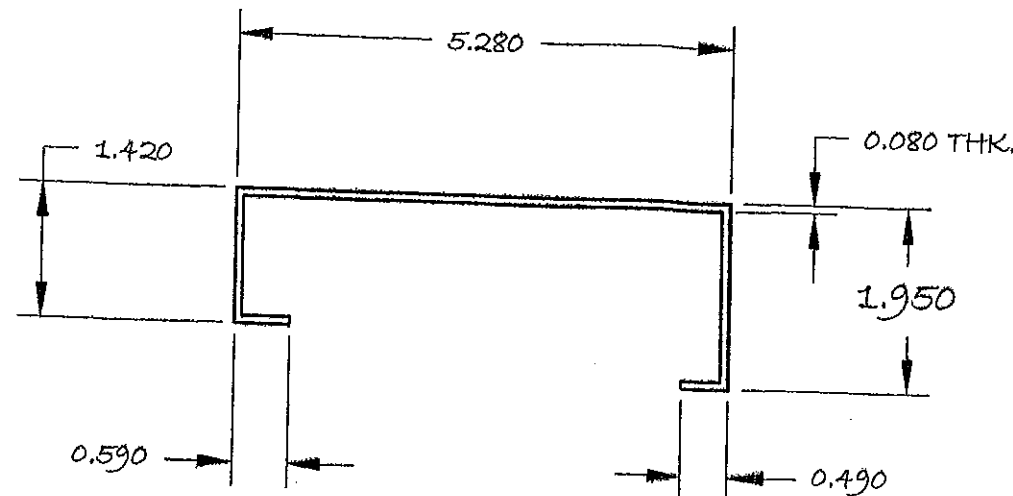
PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 12-0320.22  
 Expiration Date 4/23/16  
*Walter A. Tilit, Jr.*  
 Head Code Product Control

12-059  
 DRAWING N°  
 SHEET 5 OF 11

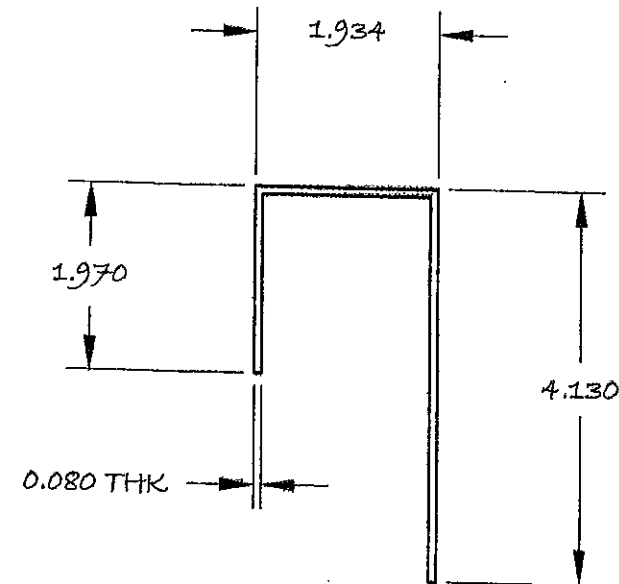




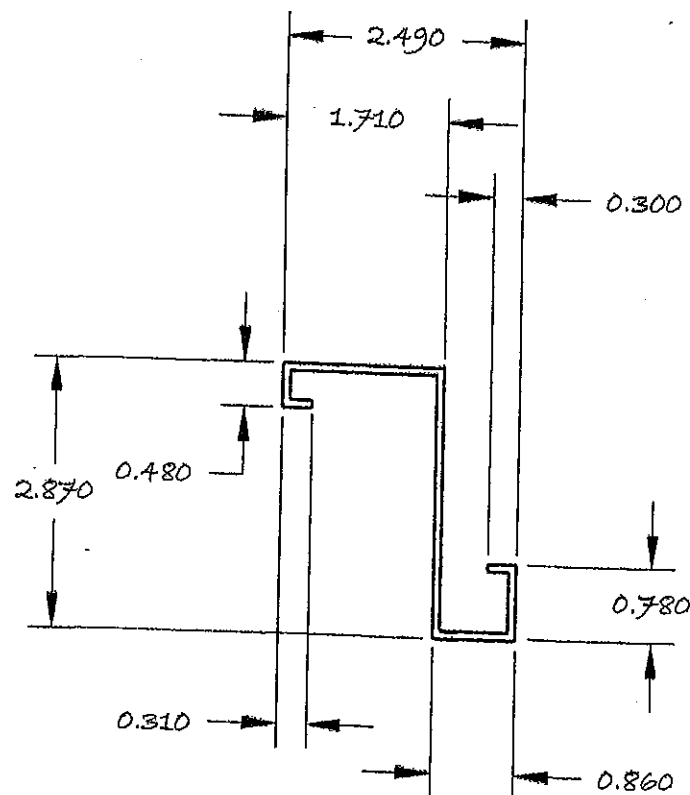
14  
6 BACKING TOBAR



8  
6 REINFORCEMENT LOCK STILE  
(FULL LENGTH)

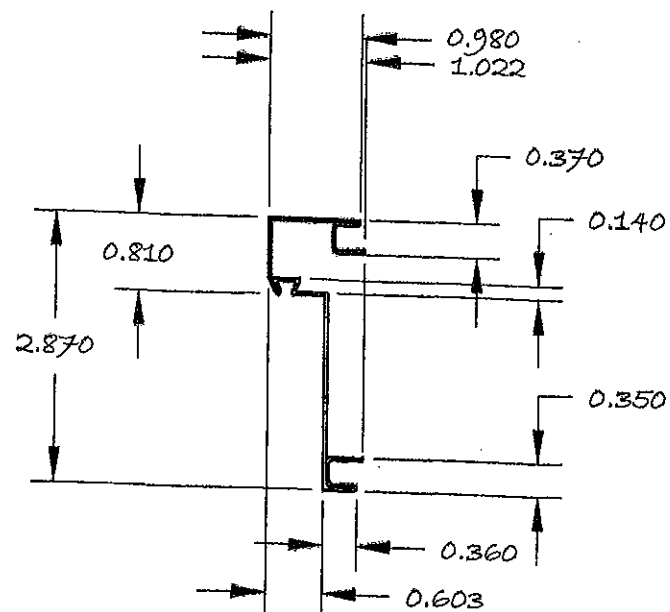


10  
6 REINF HINGE STILE  
(FULL LENGTH)



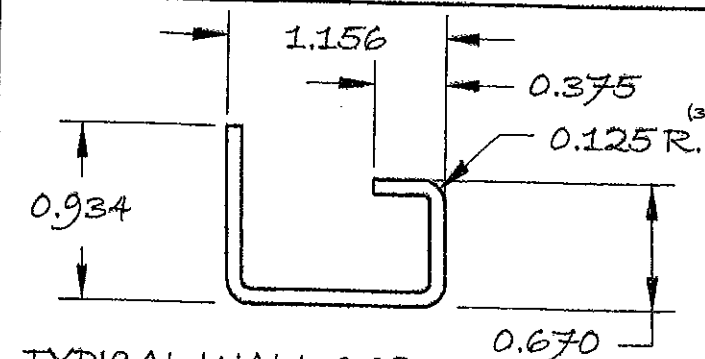
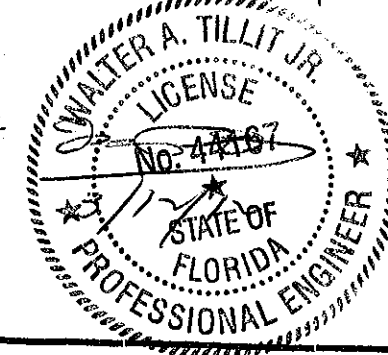
4  
6 FRAME: JAMBS & HEAD

0.080" WALL THK. TYP



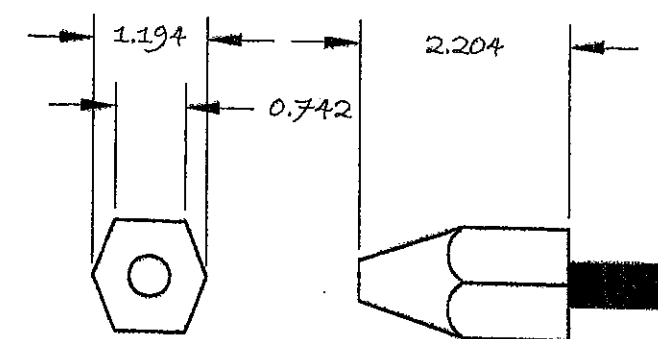
11  
6 DOOR PANEL TOP RAIL  
BOTTOM RAIL AND  
VERTICAL STILES

0.031" WALL THK. TYP



TYPICAL WALL 0.08

15  
6 TOP FRAME SILL



24  
6 BLOT

©2012 TILTECO, INC.  
**TILTECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
4355 NW 28th St., Ste. 205 - Pompano Beach, FL 33069  
Phone: (954) 971-1530 Fax: (954) 971-1531  
e-mail: tilteco@tillit.com  
WALTER A. TILLIT JR., P.E.  
FLORIDA LIC. # 44187

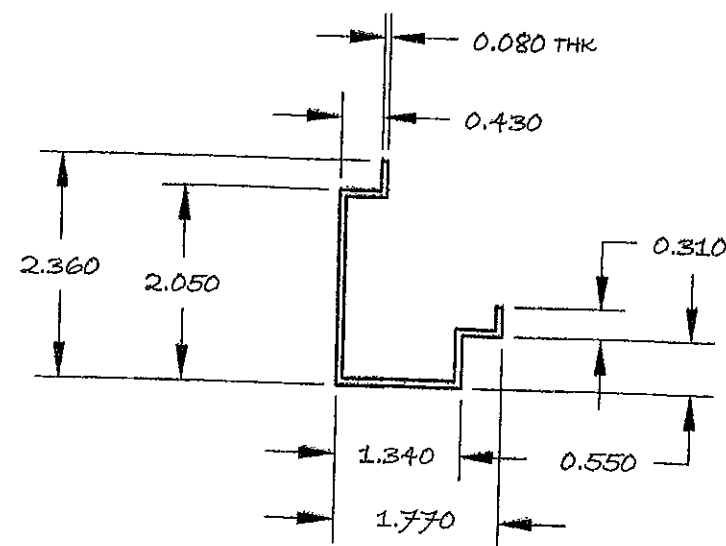
**MASTER SECURITY DOORS, INC.**  
2179 N POWER LINE ROAD  
SUITE 2  
POMPANO BEACH, FL 33069  
TELEPHONE: 954-971-4747  
FAX: 954-971-4925

MODEL: EX3 USA  
INSWING DOOR  
LARGE MISSILE  
IMPACT RESISTANT  
DRAWING: DETAILS  
SCALE: NONE  
DRAWN BY: KP, REAG.  
DATE DWN: OLD 11-036 02/29/12

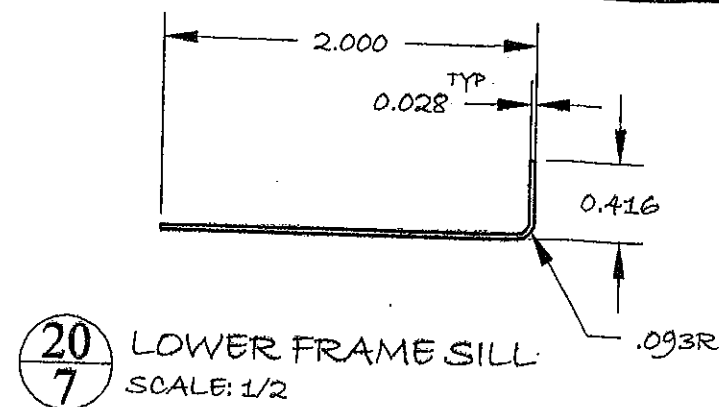
PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 12-0320-22  
Expiration Date 4/23/16  
by Isling, J. Ugan  
Miami Dade Product Council

12-059  
DRAWING N°  
SHEET 6 OF 11

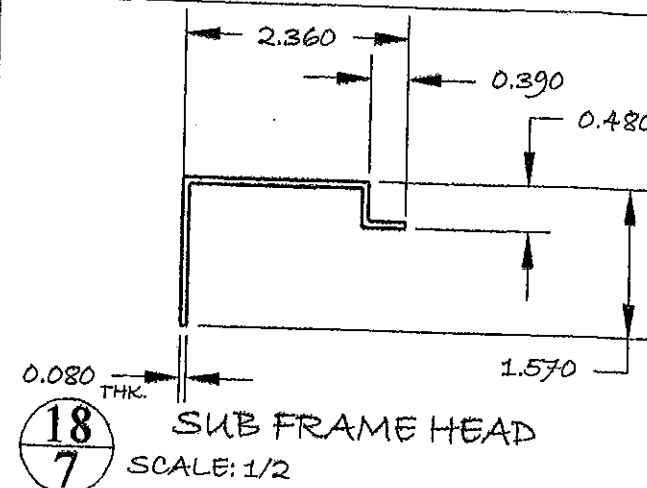




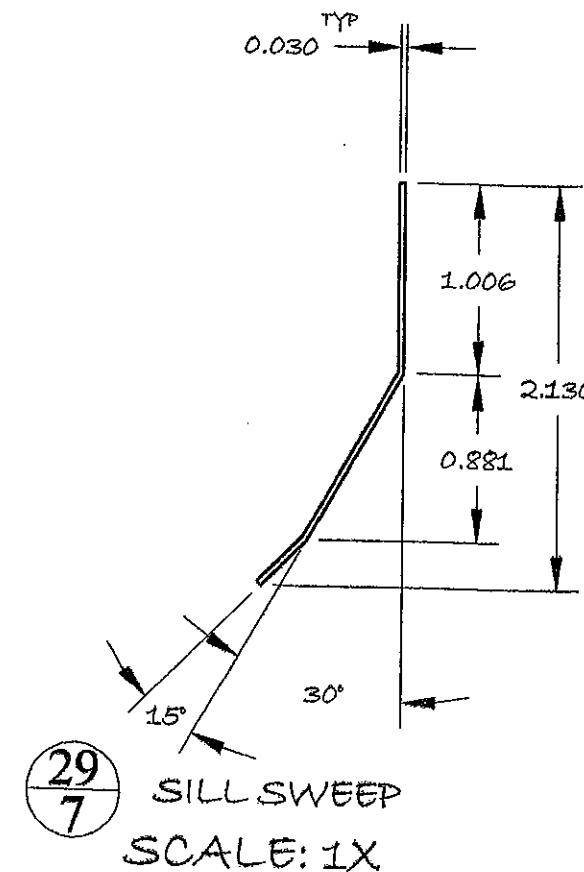
19  
7 SUBFRAME JAMBS  
SCALE: 1/2



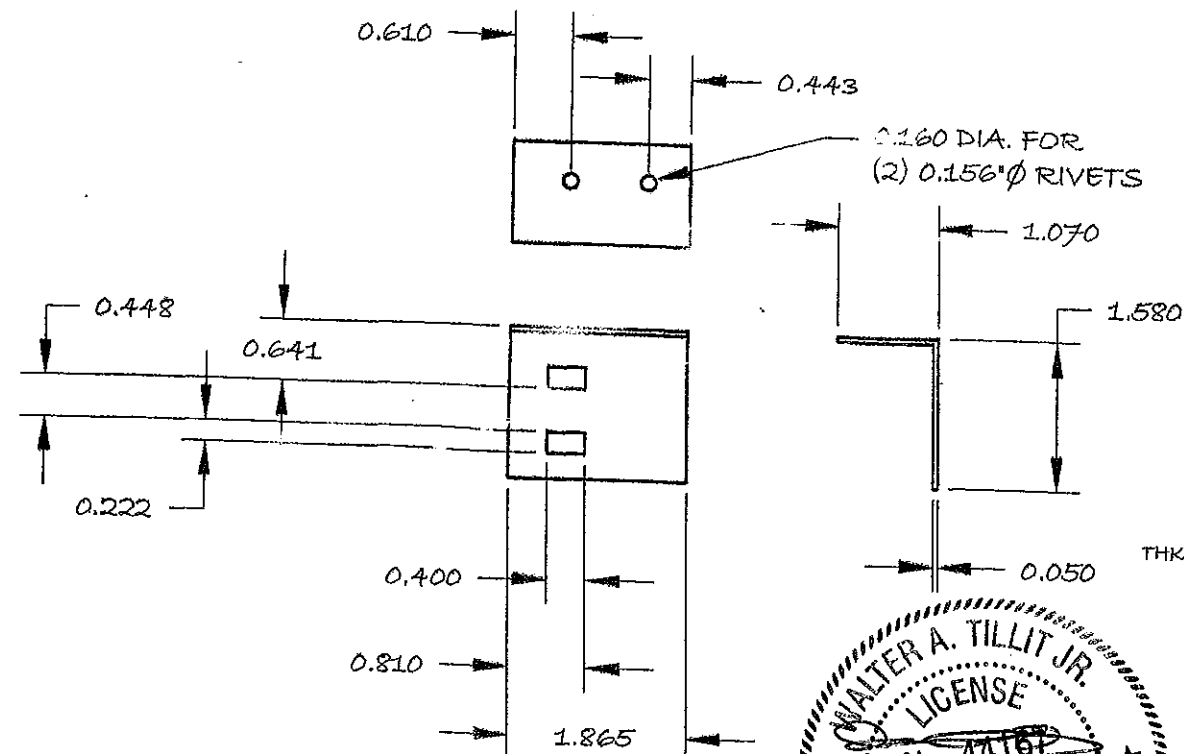
20  
7 LOWER FRAME SILL  
SCALE: 1/2



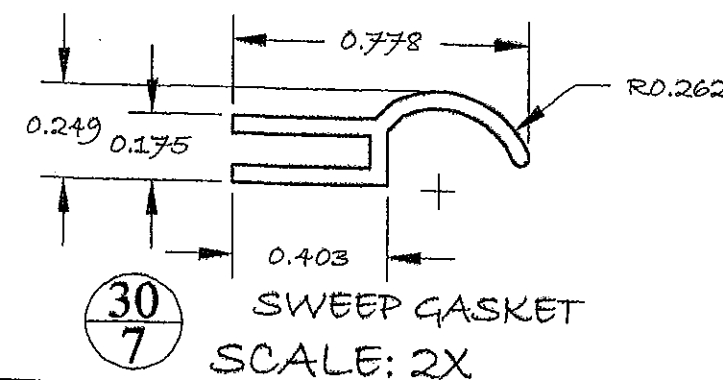
18  
7 SUB FRAME HEAD  
SCALE: 1/2



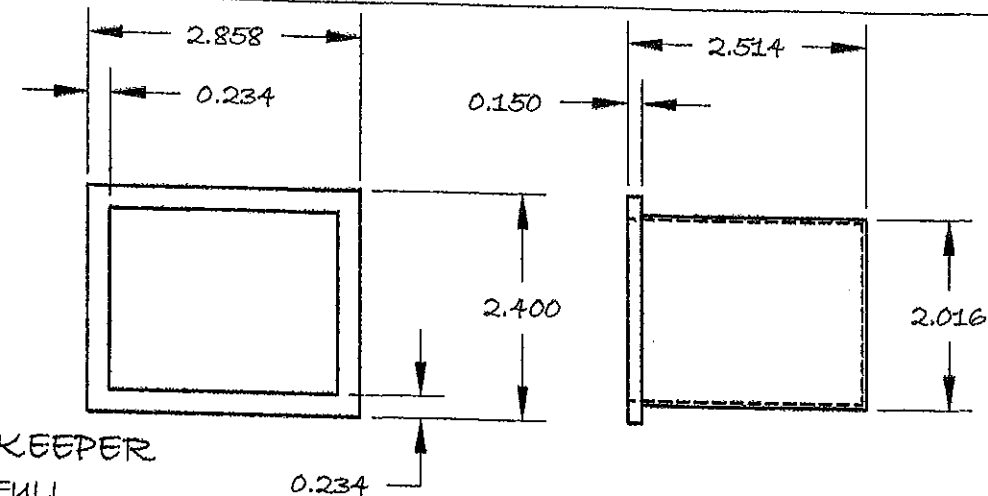
29  
7 SILL SWEEP  
SCALE: 1X



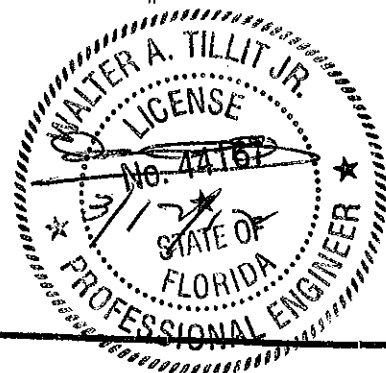
21  
7 SUB FRAME CORNER KEY  
SCALE: 1/2



30  
7 SWEEP GASKET  
SCALE: 2X



28  
7 BLOT KEEPER  
SCALE: FULL



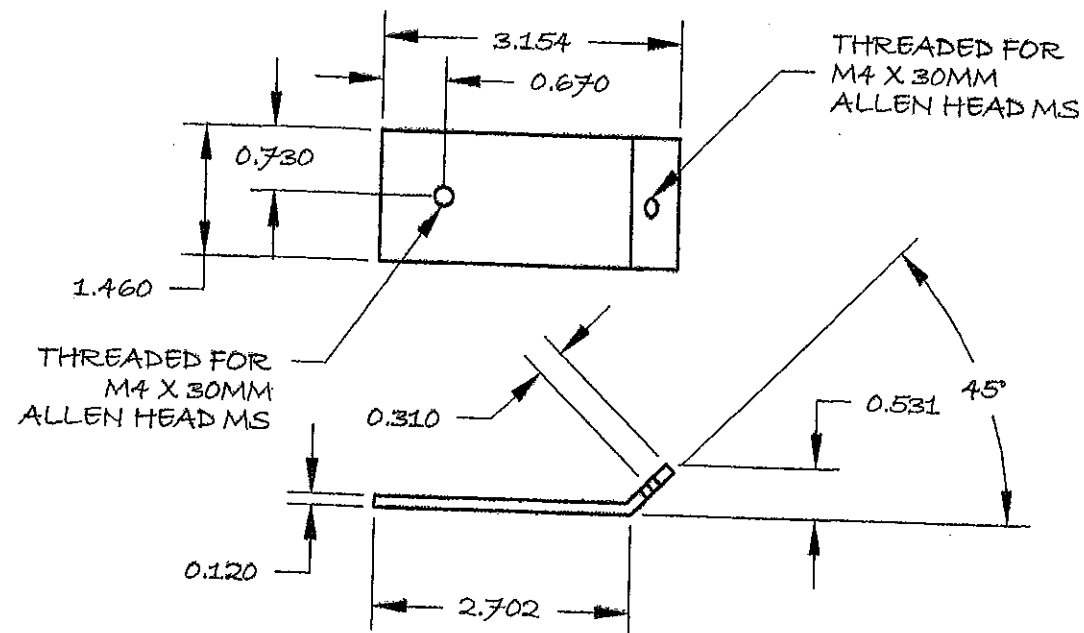
©2012 TILTECO, INC.  
**TILTECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
8205 N.W. 36th St., Ste. 205 - Vero Beach, FL 32986  
Phone: (888) 441-1501 Fax: (888) 441-1501  
e-mail: [tiltec@tiltec.com](mailto:tiltec@tiltec.com)  
WALTER A. TILLIT, P.E.  
FLORIDA LIC. # 44167

**MASTER SECURITY DOORS, INC.**  
2179 N POWER LINE ROAD  
SUITE 2  
POMPAHO BEACH, FL 33069  
TELEPHONE: 954-971-4747  
FAX: 954-971-4925

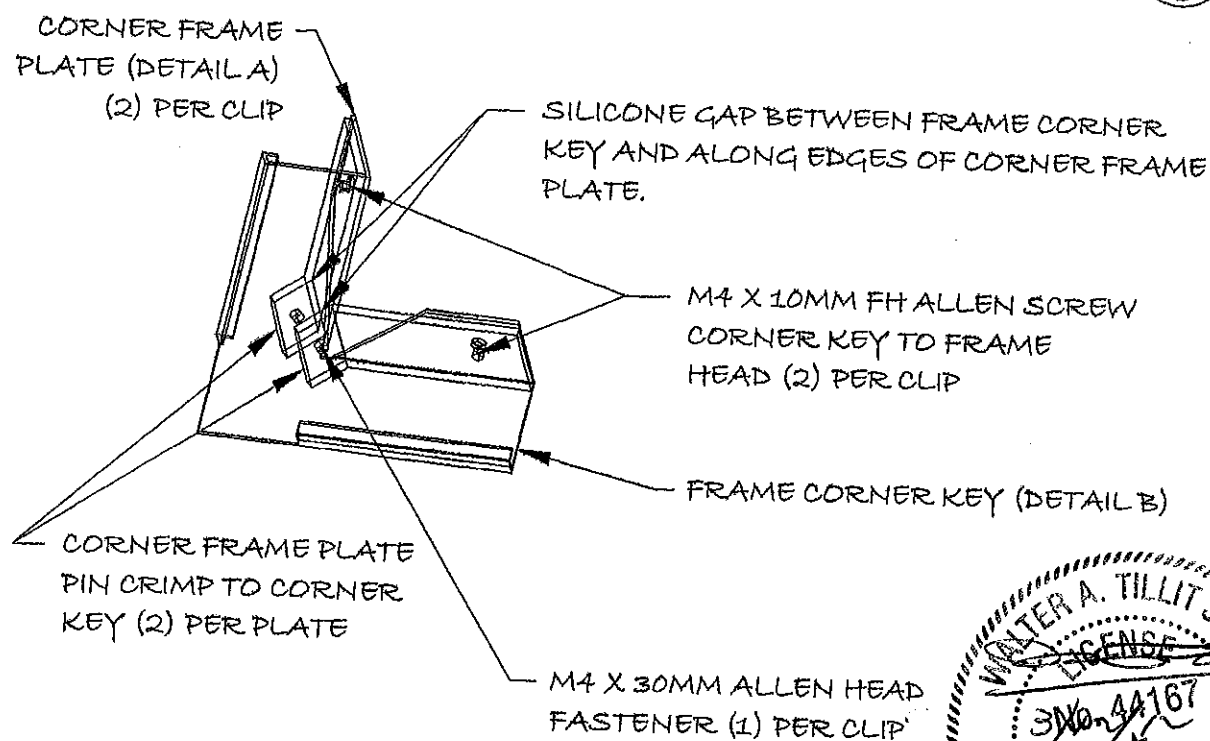
MODEL: EX3 USA  
INSWING DOOR  
LARGE MISSILE  
IMPACT RESISTANT  
DRAWING: SUBFRM DETAILS  
SCALE: NONE  
DRAWN BY: KP, RE.A.G.  
DATE DWN: OLD 11-036 02/29/12

PRODUCT REVISED  
to comply with the Florida  
Building Code  
Acceptance No. 12-0320-22  
Expiration Date 4/23/16  
By: *Isling J. Chando*  
Manual Build Product Control

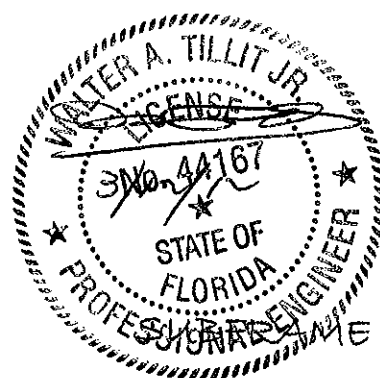
12-059  
DRAWING N°  
SHEET 7 OF 11



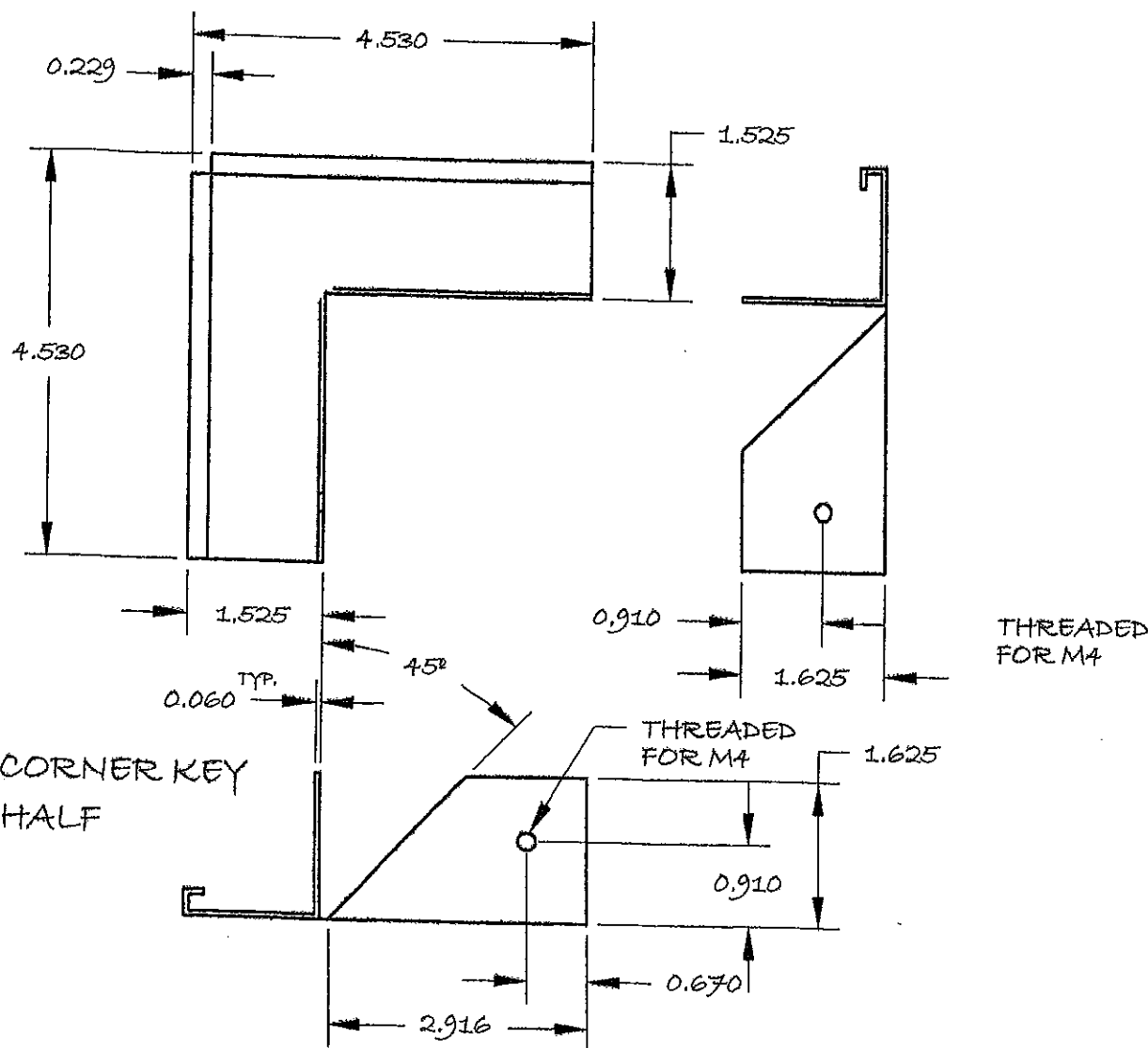
**A**  
8 CORNER FRAME PLATE  
SCALE: HALF



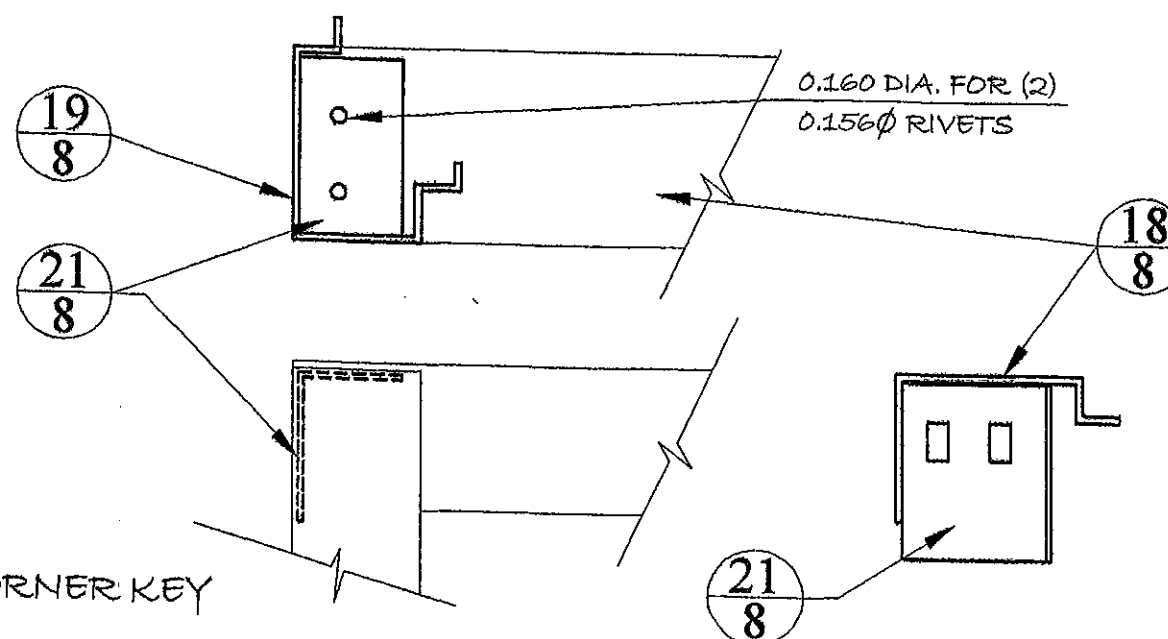
**5**  
8 FRAME CORNER KEY ASS'Y



FRAME CORNER KEY



**B**  
8 FRAME CORNER KEY  
SCALE: HALF



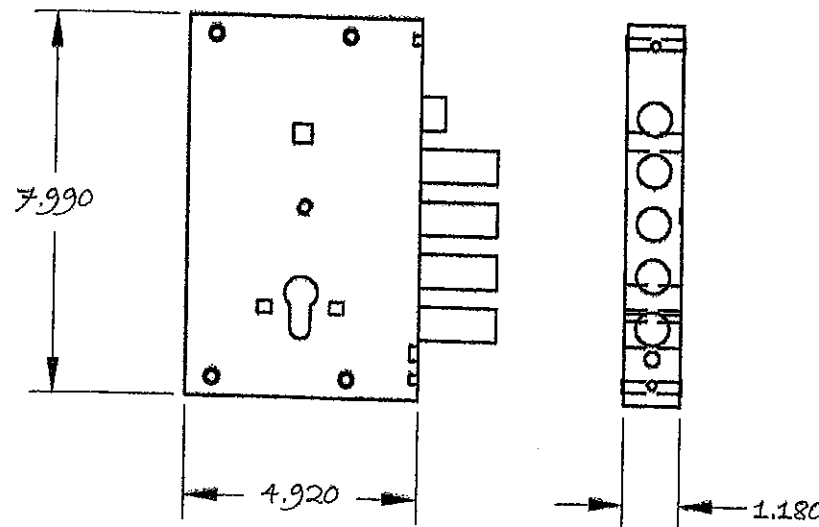
©2012 TILTECO, INC.  
**TILTECO INC.**  
TILIT TESTING & ENGINEERING COMPANY  
655 N.W. 38th St., Suite 205 - Miramar, FL 33186  
Phone: (305) 471-1551 Fax: (305) 971-1511  
e-mail: [tilteco@tilteco.com](mailto:tilteco@tilteco.com)  
WALTER A. TILLIT JR., P.E.  
FLORIDA LIC. # 44167

**MASTER SECURITY DOORS, INC.**  
2179 N POWER LINE ROAD  
SUITE 2  
POMPANO BEACH, FL 33069  
TELEPHONE: 954-971-4747  
FAX: 954-971-4925

MODEL: EX3 USA  
INSWING DOOR  
LARGE MISSILE  
IMPACT RESISTANT  
DRAWING: DETAILS  
SCALE: NONE  
DRAWN BY: KP, REAG  
DATE DWN: OLD 11-036 02/29/12

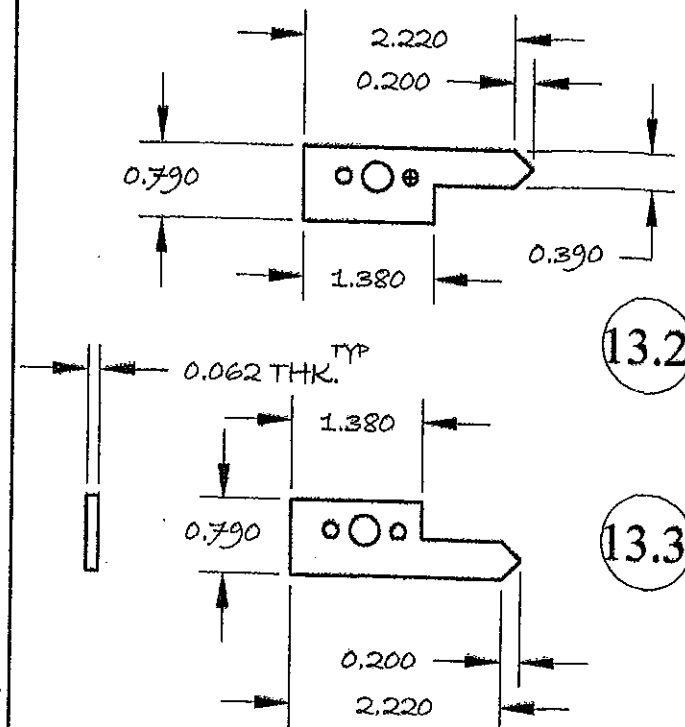
PRODUCED IN ACCORDANCE  
with the Florida  
Building Code  
Acceptance No. 12-0320-22  
Expiration Date 4/23/16  
By: *Ismael J. Llanusa*  
Tillit Test Product Control

12-059  
DRAWING N°  
SHEET 8 OF 11



13.1 LOCK  
SCALE: 1/4

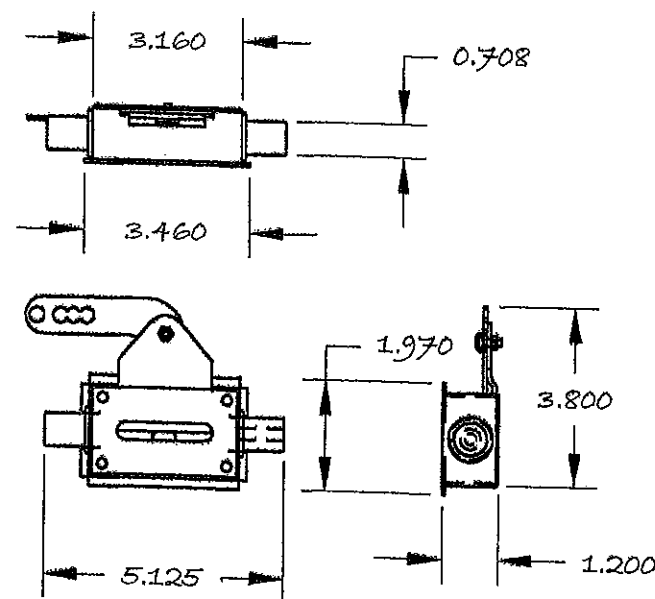
ATTACHED TO LOCK  
STILE W/ (2) 1/4-28  
X 1/2" FH ALLEN SCR.



13.2 TONGUE UPPER AND LOWER  
SCALE: 1/2

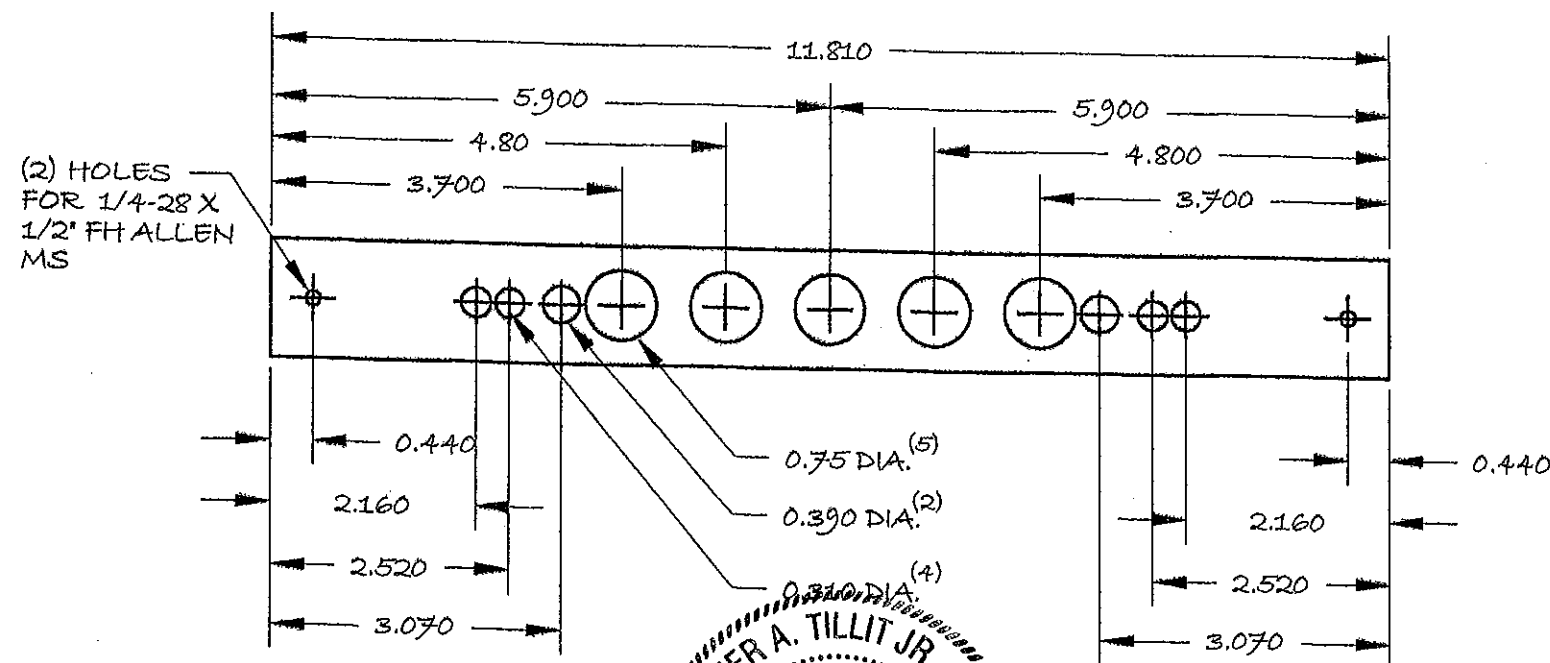
ITEM #	DESCRIPTION	QUANTITY
13.1	LOCK	1
13.2	TONGUE UPPER	1
13.3	TONGUE LOWER	1
13.4	LOCK SLIDE BOLTS	2
13.5	CONNECTOR ROD (NOT SHOWN)	2
13.6	LOCK STRIKE PLATE	1

13  
9 MULTI-POINT LOCKING SYSTEM

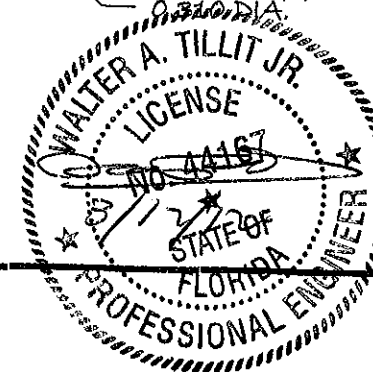


(2) REQUIRED AT  
LOCK STILE

13.4 LOCK SLIDE BOLTS  
SCALE: 1/4



13.6 LOCK STRIKE PLATE  
SCALE: 1/2



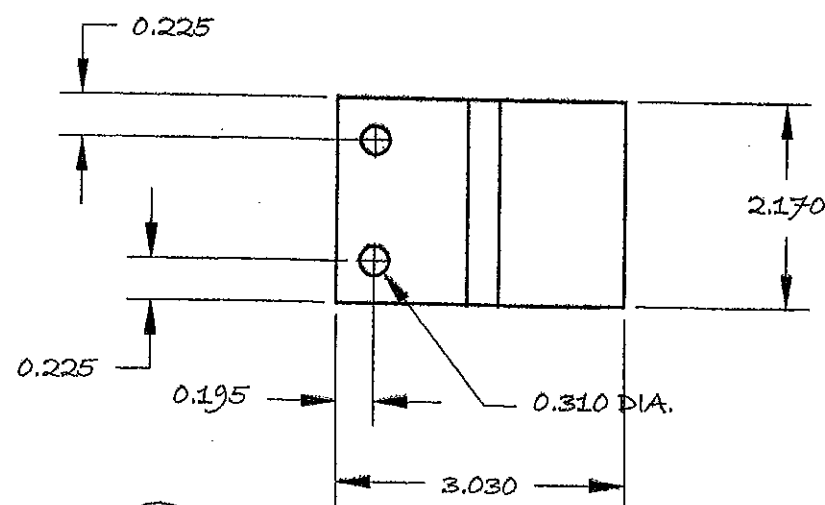
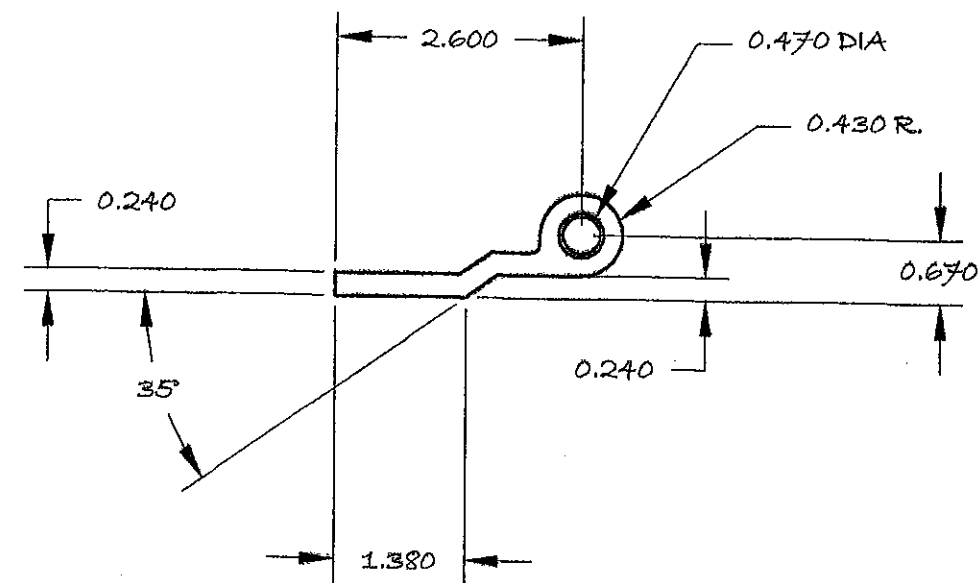
©2012 TILTECO, INC.  
**TILTECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
6355 N.W. 38th St., Ste. 305 - Virginia Gardens, R. 33148  
Phone: (954) 971-1530 Fax: (954) 971-4531  
e-mail: Tiltco@aol.com  
WALTER A. TILLIT JR., P.E.  
FLORIDA LIC. # 44167

**MASTER SECURITY DOORS, INC.**  
2179 N POWER LINE ROAD  
SUITE 2  
POMPANO BEACH, FL 33069  
TELEPHONE: 954-971-4747  
FAX: 954-971-4925

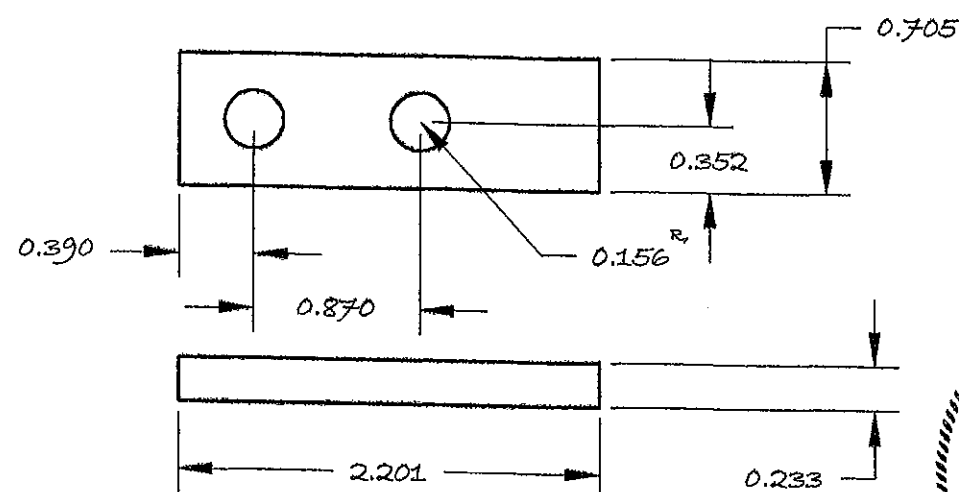
MODEL: EX3 USA  
INSWING DOOR  
LARGE MISSILE  
IMPACT RESISTANT  
DRAWING: LOCK SYSTEM  
SCALE: NONE  
DRAWN BY: KP, RE.A.G.  
DATE DWN: OLD 11-036 02/29/12

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 12-0320.22  
Expiration Date 4/23/16  
By: [Signature]  
Missile Data Product Control

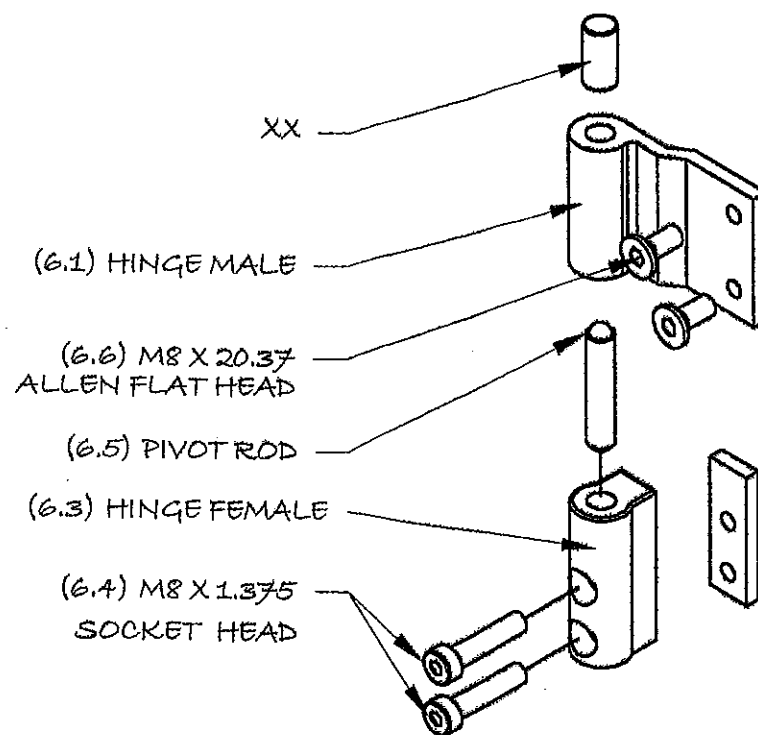
12-059  
DRAWING N°  
SHEET 9 OF 11



**6.1** HINGE MALE  
SCALE: HALF

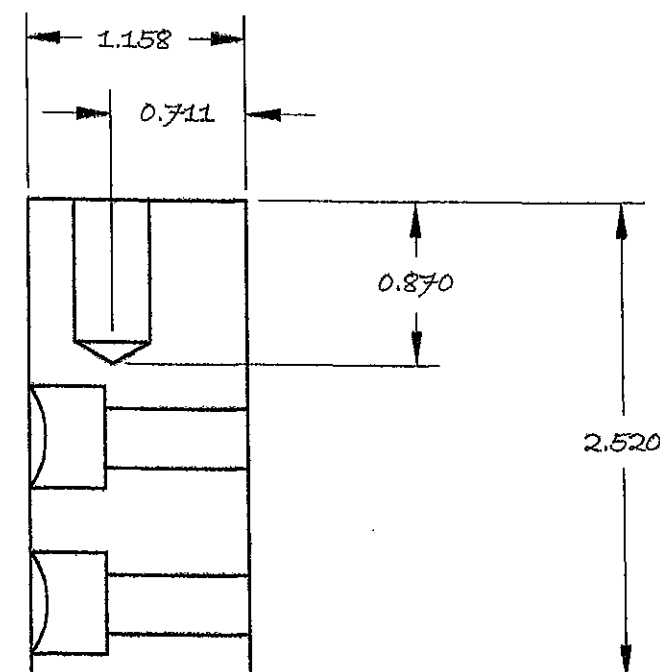
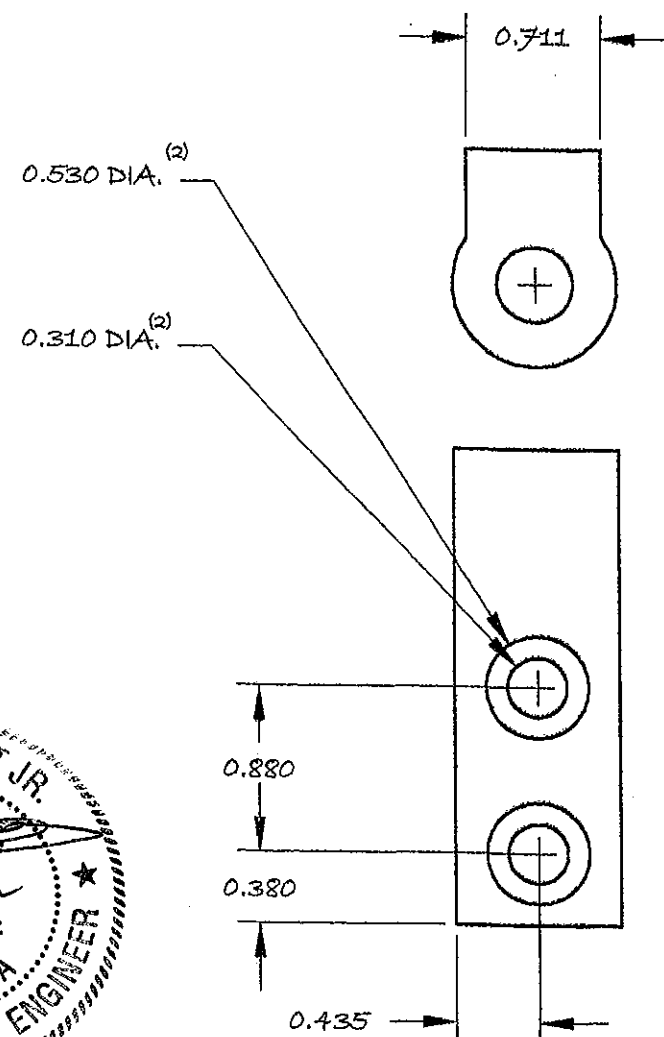


**6.2** HINGE BACKER PLATE  
SCALE: FULL

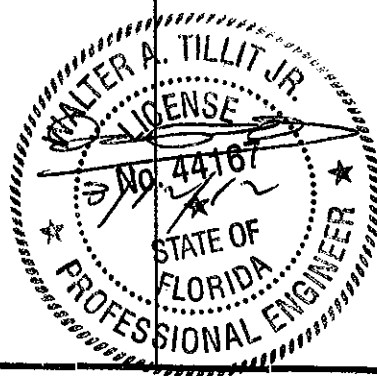


**6**  
**10** HINGE ASSEMBLY

ITEM #	DESCRIPTION	QUANTITY
6.1	HINGE MALE	1 / ASSY
6.2	HINGE BACKER PLATE	1 / ASSY
6.3	HINGE FEMALE	1 / ASSY
6.4	M8 X 1.375 SOCKET HEAD	2 / ASSY
6.5	PIVOT ROD	1 / ASSY
6.6	M8 X 20.37 ALLEN FH	2 / ASSY



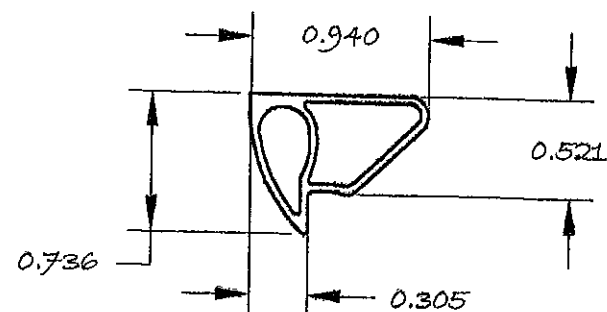
**6.3** HINGE FEMALE  
SCALE: FULL



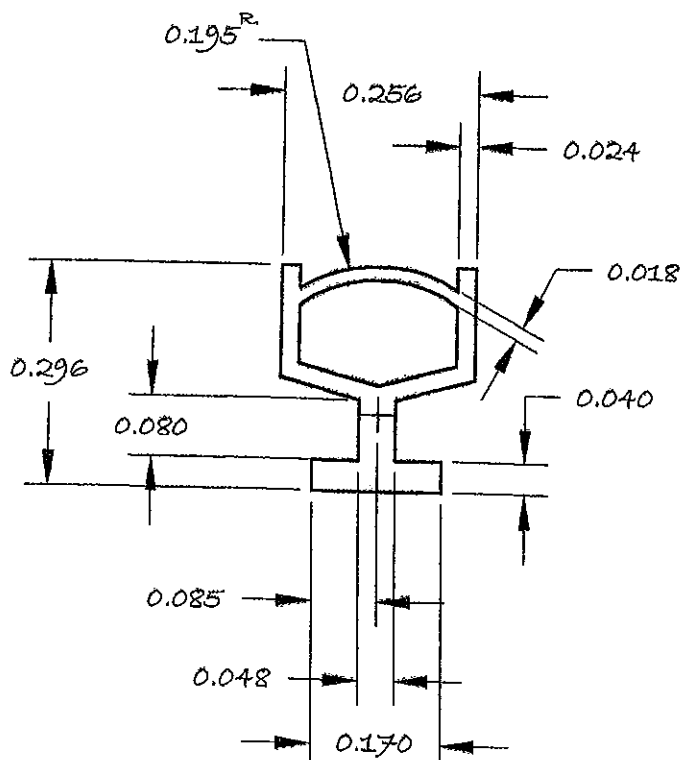
**MASTER SECURITY DOORS, INC.**  
2179 N POWER LINE ROAD  
SUITE 2  
POMPAHO BEACH, FL 33069  
TELEPHONE: 954-971-4747  
FAX: 954-971-4925

MODEL: EX3 USA  
INSWING DOOR  
LARGE MISSILE  
IMPACT RESISTANT  
DRAWING: HINGE ASSY  
SCALE: NONE  
DRAWN BY: KP, REAG  
DATE DWN: OLD 11-036 02/29/12

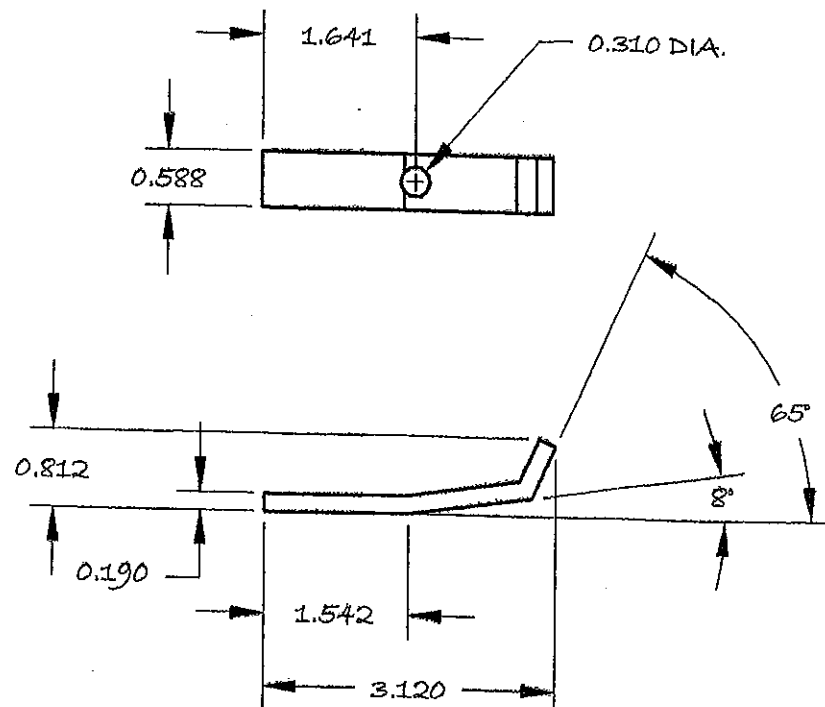
PRODUCT REVIEWED  
in compliance with the Florida  
Building Code  
Acceptance No. 12-0320-22  
Expiration Date 4/23/12  
By: [Signature]  
Initial Date Product Control



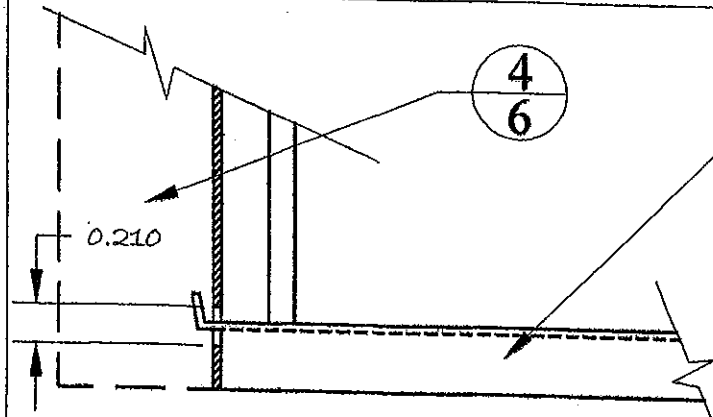
**22/11** FRAME GASKET  
SCALE: FULL



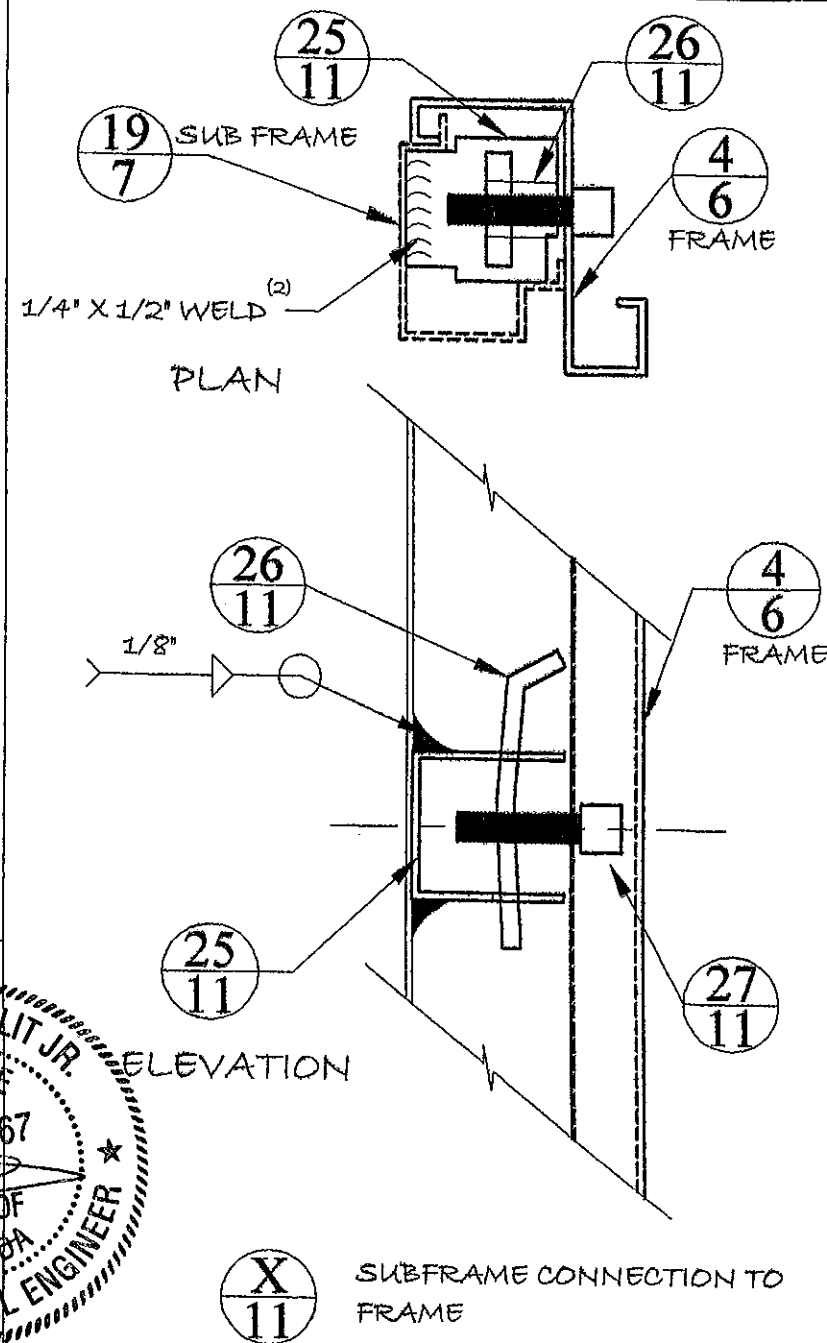
**23/11** COMPRESSION GASKET  
SCALE: 10X



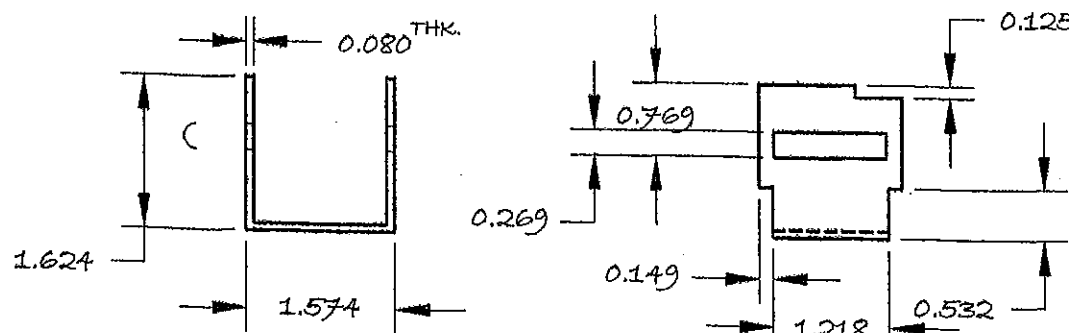
**26/11** RETENTION CLIP  
SCALE: HALF



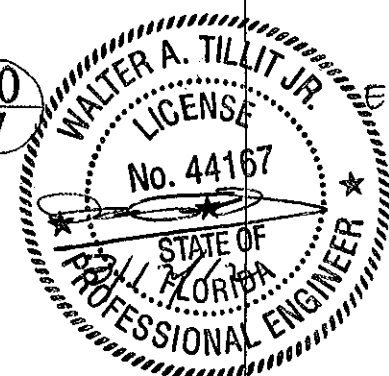
**Y/11** LOWER FRAME SILL  
TO FRAME JAMB  
CONNECTION



**X/11** SUBFRAME CONNECTION TO  
FRAME



**25/11** ADJ RETENTION CLIP HOUSING  
SCALE: 1/2



**TILIECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
6305 N.W. 20th St., Ste. 315 - Miramar, Florida, FL 33186  
Phone: (305) 971-1530 Fax: (305) 971-1531  
e-mail: tilieco@aol.com  
WALTER A. TILLIT JR., P.E.  
FLORIDA LIC. # 44167

**MASTER SECURITY DOORS, INC.**  
2179 N POWER LINE ROAD  
SUITE 2  
POMPAHO BEACH, FL 33069  
TELEPHONE: 954-971-4747  
FAX: 954-971-4925

MODEL: EX3 USA  
INSWING DOOR  
LARGE MISSILE  
IMPACT RESISTANT  
DRAWING: DETAILS  
SCALE: NONE  
DRAWN BY: KP, RE.A.G.  
DATE DWN: OLD 11-036 02/29/12

PRODUCT REVIEWED  
in compliance with the Florida  
Building Code  
Acceptance No. 12-0320-22  
Expiration Date APR 23, 2016  
*Glenn L. Chiswick*  
Florida State Training Council

12-059  
DRAWING N°  
SHEET 11 OF 11